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# Guide to the Wild Germplasm of Brassica and Allied Crops

## Part I

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The images represent the Research Branch's objective: to improve the long-term competitiveness of the Canadian agri-food sector through the development and transfer of new technologies.

*Designed by Research Program Service.*

**Illustration de la couverture**

Les dessins illustrent l'objectif de la Direction générale de la recherche : améliorer la compétitivité à long terme du secteur agro-alimentaire canadien grâce à la mise au point et au transfert de nouvelles technologies.

*Conception par le Service aux programmes de recherches.*



# Guide to the Wild Germplasm of Brassica and Allied Crops

## Part I Taxonomy and Genome Status in the Tribe Brassiceae (Cruciferae)

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## INTRODUCTION TO THE GUIDE:

The Cruciferae family, which contains about 3500 species and 350 genera, is one of the ten most economically important plant families (Rich 1991). The tribe Brassiceae is one of the 13-19 tribes which have been recognized within the family and is one of the few tribes believed to constitute a natural group (Hedge 1976, Al-Shehbaz 1984, 1985). It is the most important economically and the most distinctive (Gómez-Campo 1980, Al-Shehbaz 1985). It is distinguished on the basis of the presence of conduplicate cotyledons (i.e. the cotyledons are longitudinally folded around the radical) and/or two-segmented fruits (siliques) which contain seeds in one or both segments, and only simple hairs if present (Gómez-Campo 1980, Al-Shehbaz 1985).

Crop brassicas display enormous diversity and are used as a source of oil, vegetables, mustard condiments, and fodder. Those of particular importance in Canada are: *Brassica napus*, *B. rapa*, and *B. juncea* as sources of canola oil, and *B. oleracea* as cole-crops. The genera *Raphanus* and *Sinapis* are also of major importance, the former cultivated for its edible roots and the latter as a source of mustard condiments along with *B. nigra*. Several species have become naturalized weeds in Canada and the United States [eg. *Sinapis arvensis* (wild mustard), *Raphanus raphanistrum* (wild radish), and *B. rapa* (wild rape)], representing both a potential source of germplasm and agricultural problems. In other areas of the world *Crambe* is cultivated as an industrial oil, and the leaves of other genera (eg. *Eruca* and *Diplotaxis*) are eaten as salad greens.

An understanding of the genetic potential of wild relatives of the crop species of *Brassica* and allied genera (members of the Tribe Brassiceae) is critical for the establishment of long-term breeding programs of these crops. In addition, it is clear that many of the wild species in the tribe have potential value as new crops, as sources of industrial oils (*Crambe*, *Eruca*), condiments (*Sinapis alba*), and other diverse products. Wild relatives also possess a number of useful agronomic traits which could be incorporated into breeding programs, including: cytoplasmic and nuclear male sterility; resistance to disease and insect and nematode pests; intermediate C<sub>3</sub>-C<sub>4</sub> photosynthetic activity; and tolerance of cold, salt and drought conditions.

The last comprehensive taxonomic treatment on the tribe was conducted by Schulz (1919, 1923, 1936). The tribe Brassiceae contains approximately 217 species and 51 genera, 25 of which are monotypic (Table below). Geographically, it is centered in the southwestern Mediterranean region, particularly Algeria, Morocco and Spain, where c. 41 genera are either endemic or exhibit maximum diversity. The tribal range extends eastward into India and Pakistan and southward into South Africa, with a poor representation in the New World (Hedge 1976, Gómez-Campo 1980, Al-Shehbaz 1985).

**GENERA OF THE TRIBE BRASSICEAE (no. species in brackets)**


---

Ammosperma (2)	Guiraoa (1)
Boleum (1)	Hemicrambe (2)
Brassica (35)	Henophyton (1)
Cakile (7)	Hirschfeldia (2)
Carrichtera (1)	Kremeriella (1)
Ceratocnemum (1)	Moricandia (9)
Chalcanthus (2)	Morisia (1)
Coincya (6)	Muricaria (1)
Conringia (6)	Otocarpus (1)
Cordylocarpus (1)	Physorrhynchus (2)
Crambe (26)	Pseuderucaria (2)
Crambella (1)	Pseudofortuynia (1)
Didesmus (2)	Psychine (1)
Diplotaxis (27)	Quezeliantha (1)
Dolichorrhynchus (1)	Raffenaldia (2)
Douepia (1)	Raphanus (2)
Enarthrocarpus (5)	Rapistrum (2)
Eremophyton (1)	Rytidocarpus (1)
Eruca (3)	Savignya (1)
Erucaria (9)	Schouwia (1)
Erucastrum (19)	Sinapidendron (5)
Euzomodendron (1)	Sinapis (5)
Fezia (1)	Succowia (1)
Foleyola (1)	Trachystoma (3)
Fortuynia (2)	Vella (5)
	Zilla (1)

---

Within the tribe, Schulz (1919, 1923, 1936) also recognized, somewhat arbitrarily on the basis of morphological characters, seven subtribes: Brassicinae, Cakilinae, Moricandiinae, Raphaninae, Savignyinae, Vellinae, and Zillinae. Gómez-Campo (1980) has since proposed a reduction to six subtribes with the inclusion of the Savignyinae in the Vellinae. The Brassicinae and Moricandiinae both include genera with elongated siliquose dehiscent fruit, while the other subtribes include those with reduced or "nucamentaceous" fruits.

Generic boundaries in the tribe are still somewhat arbitrarily drawn, and the establishment of clear-cut intergeneric relationships requires clarification. Unlike many of the small genera, the species are generally very distinct throughout the family, with fruit characters being the most reliably used structures for the proper identification of genera and species. Taxonomic debate in the tribe has centred most particularly upon the number of and relationships between the subtribes and genera (Hedge 1976, Al-Shehbaz 1985).



The genus *Brassica* is one of ten core genera in the subtribe Brassicinae, which also includes *Coincya*, *Diplotaxis*, *Eruca*, *Erucastrum*, *Hirschfeldia*, *Raphanus*, *Sinapidendron*, *Sinapis*, and *Trachystoma*. The Brassicinae is defined primarily on the basis of elongated (siliquose) dehiscent fruits, presence of median nectaries, and usually seeded beaks. Although morphologically quite distinct from subtribes Cakilinae, Vellinae, and Zillinae, its separation from the Raphaninae and Moricandiinae is less clear. Current generic circumscriptions within the subtribe Brassicinae have also been considered to be highly artificial by many taxonomists, with generic delimitation based primarily on only one or two morphological traits.

Systematists are continuing to re-evaluate relationships within the tribe Brassiceae by way of morphological, cytological, hybridization, isozyme and molecular analyses (studies reviewed in Warwick and Black 1991, 1993). Such research has confirmed many proposed species relationships, but has also indicated new relationships between genera and species. In particular, these studies have identified new potential sources of germplasm for *Brassica* crops, indicating that the range of germplasm important to the genus is much greater than previously recognized.

The following Guide to the wild germplasm of *Brassica* and allied crops (Tribe Brassiceae, family Cruciferae) will be divided into five parts as indicated below:

- I. **Taxonomy and Genome Status** - [Complete list of genera and species in the tribe and their genomic status, containing cross references for commonly confused names];  
by S.I. WARWICK
- II. **Chromosome Numbers**;  
by S.I. WARWICK & J.K. ANDERSON
- III. **Interspecific and Intergeneric Hybridizations**;  
by S.I. WARWICK & L.D. BLACK
- IV. **Wild Species as Sources of Agronomic Traits** - [List of potentially useful agronomic traits and possible wild germplasm sources in the tribe];  
by S.I. WARWICK
- V. **Life History Data** [Summary of habitat and geographical distributions of all species indicated in part I.]  
by S.I. WARWICK

The information provided in this guide is intended to be useful in providing direction for future genebank needs for these crops and for assisting biotechnologists and breeders wishing to utilize these genetic resources in their research programs.

## **PART I: TAXONOMY AND GENOME STATUS IN THE TRIBE BRASSICEAE (Cruciferae)**

The following publication is the first part of a guide to the wild germplasm of *Brassica* and allied crops (Tribe Brassiceae, family Cruciferae). It provides a complete list of genera and species in the tribe and their genomic status.

Extensive synonymy exists for almost all the species in this tribe with different taxonomists over the last 240 years referring to the same species under different names. Taxonomic studies (revisions) have indicated which of these names correspond to the same species, i.e. are synonymous. A complete list of all latin binomials and cross references for each species in the tribe would number in the thousands. In this publication I have been selective in my synthesis of the main species in the tribe as summarized from the major floras of the world. I have tried to include only "current" names - those which appear in the recent literature and are used to describe the same taxon and which often cause confusion for all but the most dedicated taxonomist. Such an example would be *Brassica adpressa* and *Hirschfeldia incana*, both commonly used names for the same species in North America and Europe, respectively. This taxonomic guide will include both names and will indicate under which name the biological information in the subsequent parts will appear.

The following information is provided for each taxon:

- GENUS & SPECIES** Latin binomial for each taxon followed by the name of the taxonomic authority.
- AUTH SOURCE:** Reference in which authority published the binomial name, i.e source of species description.
- SUBSPECIES:** List of currently recognized subspecies for each species, followed by the name of the authority that recognized the taxon at the subspecific rank followed by the published reference for this name.
- SYNONYM:** As required, the current latin binomial with which this species name is synonymous.
- GENOME:** The cytodeme status of this particular taxon. In many cases this is identical to the species name, but in other cases studies have indicated that the taxon is highly interfertile with other taxa (See GENOME STATUS) and included in the same "cytodeme".

**Information is available in the publication under this name or under the synonym.**

The final statement indicates whether additional biological information will be summarized in the subsequent parts of the guide under the particular latin binomial cited in **GENUS & SPECIES** or that under the **SYNONYM**. Biological information will be summarized for each species and will not usually be given separately for subspecies and varieties.

GENUS: Ammosperma GENOME: Ammosperma cinereum  
 SPECIES: cinereum (Desf.) Hook. f.  
 AUTH SOURCE: Benth. and Hook., Gen. Pl. 1:82 (1862)  
 Information is available in the Guide under this name.

GENUS: Ammosperma GENOME: Ammosperma variabile  
 SPECIES: variabile Nègre & Le Houérou  
 AUTH SOURCE: Bull. Soc. Bot. Fr. 106:146 (1959)  
 Information is available in the Guide under this name.

GENUS: Boleum GENOME: Boleum asperum  
 SPECIES: asperum (Pers.) Desv.  
 AUTH SOURCE: J. Bot. Agric. 3:163 (1815)  
 SYNONYM: Vella aspera Pers., Syn. Pl. 2:185 (1806)  
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Hirschfeldia incana  
 SPECIES: adpressa Boiss.  
 AUTH SOURCE: Voy. Bot. Midi Espagne II (1839)  
 SYNONYM: Hirschfeldia incana (L.) Lagrèze-Fossat  
 Information is available in the Guide under the synonym.

GENUS: Brassica GENOME: Brassica oleracea  
 SPECIES: alboglabra L.H. Bailey  
 AUTH SOURCE: Gentes Herb. 1:79 (1922)  
 SYNONYM: Brassica oleracea L.  
 Information is available in the Guide under the synonym.

GENUS: Brassica GENOME: Brassica souliei  
 SPECIES: amplexicaulis (Desf.) Pomel  
 AUTH SOURCE: Mat. Fl. Atlant. :15 (1860)  
 SYNONYM: Brassica souliei ssp. amplexicaulis (Desf.) Greuter & Burdet  
 Information is available in the Guide under the synonym.

GENUS: Brassica GENOME: Brassica assyriaca  
 SPECIES: assyriaca Mouton  
 AUTH SOURCE: Nouv. Fl. Liban Syrie 2:113 (1970)  
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica oleracea  
 SPECIES: atlantica (Coss.) O.E. Schulz  
 AUTH SOURCE: Engler, Pflanzenr. IV 105 (Heft 68-70):36 (1919)  
 SYNONYM: Brassica insularis Moris  
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica balearica  
 SPECIES: balearica Pers.  
 AUTH SOURCE: Syn. Pl. 2:206 (1806)  
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica barrelieri  
 SPECIES: barrelieri (L.) Janka  
 AUTH SOURCE: Term., Füz. 6:179 (1882)  
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica oleracea  
 SPECIES: bourgeau (Webb) Kuntze  
 AUTH SOURCE: Rev. Gen. Pl. 1:20 (1891)  
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica cadmea  
 SPECIES: cadmea Heldr. ex O.E. Schulz  
 AUTH SOURCE: Engler, Pflanzenr. IV 105 (Heft 68-70):63 (1919)  
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica rapa  
 SPECIES: campestris L.  
 AUTH SOURCE: Sp. Pl. 666 (1753)  
 SYNONYM: Brassica rapa L.  
 Information is available in the Guide under the synonym.



- 
- GENUS: Brassica GENOME: Brassica carinata  
SPECIES: carinata A. Braun  
AUTH SOURCE: Flora (Regensb.) 24:267 (1842)  
Information is available in the Guide under this name.
- 
- GENUS: Brassica GENOME: Brassica juncea  
SPECIES: cernua (Thunb.) Forbes & Hemsley  
AUTH SOURCE: J. Linn. Soc. 23:47 (1886)  
SYNONYM: Brassica juncea (L.) Czern. & Coss.  
Information is available in the Guide under the synonym.
- 
- GENUS: Brassica GENOME: Brassica rapa  
SPECIES: chinensis L.  
AUTH SOURCE: Cent. I. Pl., p. 19 (1755)  
SYNONYM: Brassica rapa L.  
Information is available in the Guide under the synonym.
- 
- GENUS: Brassica GENOME: Brassica fruticulosa  
SPECIES: cossoniana Boiss. & Reut.  
AUTH SOURCE: Boiss., Diagn. Pl. Orient. Nov. ser. 2, 1:31 (1854)  
SYNONYM: Brassica fruticulosa ssp. cossoniana (Boiss. & Reut.) Maire  
Information is available in the Guide under the synonym.
- 
- GENUS: Brassica GENOME: Brassica oleracea  
SPECIES: cretica Lam.  
AUTH SOURCE: Encycl. M  th. Bot. 1:747 (1785)  
SUBSPECIES: ssp. aegea (Heldr. & Hal.) Snogerup, M. Gustafsson & Bothmer: Snogerup et al., Willdenowia 19:289 (1990);  
ssp. cretica;  
ssp. laconica M. Gustafsson & Snogerup, Bot. Chron. 3:8 (1984)  
SYNONYM: Brassica oleracea var. cretica (Lam.) Coss.  
Information is available in the Guide under this name.
- 
- GENUS: Brassica GENOME: Brassica deflexa  
SPECIES: deflexa Boiss.  
AUTH SOURCE: Ann. Sci. Nat. Bot., ser. 2, 17:87 (1842)  
SUBSPECIES: ssp. deflexa;  
ssp. leptocarpa (Boiss.) Hedge: Rech. f., Fl. Iranica 57:35 (1968)  
Information is available in the Guide under this name.
- 
- GENUS: Brassica GENOME: Brassica deserti  
SPECIES: deserti Danin & Hedge  
AUTH SOURCE: Not. Roy. Bot. Gard. Edinb. 32:259, f. 1 (1972)  
Information is available in the Guide under this name.
- 
- GENUS: Brassica GENOME: Brassica repanda  
SPECIES: desnottesii Emb. & Maire  
AUTH SOURCE: Pl. Marocc. Nov. 2:1 (1929)  
Information is available in the Guide under this name.
- 
- GENUS: Brassica GENOME: Brassica souliei  
SPECIES: dimorpha Coss. & Durieu  
AUTH SOURCE: Bull. Soc. Bot. Fr. 2:306 (1855)  
SYNONYM: Brassica souliei ssp. "dimorpha" (Coss. & Durieu) Salmeen, [unpublished Ph.D. thesis 1979]  
Information is available in the Guide under the synonym.
- 
- GENUS: Brassica GENOME: Brassica oleracea  
SPECIES: drepanensis (Caruel) Damanti  
AUTH SOURCE: Nat. Sicil. 10(4):91 (1891)  
SYNONYM: Brassica villosa Biv.  
Information is available in the Guide under the synonym.
- 
- GENUS: Brassica GENOME: Brassica elongata  
SPECIES: elongata Ehrh.  
AUTH SOURCE: Beitr. Naturk. 7:159 (1792)  
SUBSPECIES: ssp. elongata;  
ssp. imdrhasiana Qu  zel, Bull. Soc. Sci. Nat. Maroc 34:304 (1955);  
ssp. integrifolia (Boiss.) Breistr., Not. Syst. Bot.:13 (1942);  
ssp. pinnatifida (Schmahl.) Greuter & Burdet, Willdenowia 15:64 (1985);  
ssp. subscaposa (Maire & Weiller) Maire, Fl. Afr. Nord 12:168 (1965)  
Information is available in the Guide under this name.
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**GENUS:** Brassica **GENOME:** Brassica fruticulosa  
**SPECIES:** fruticulosa Cyr.  
**AUTH SOURCE:** Pl. Rar. Neap. 2:7 (1792)  
**SUBSPECIES:** ssp. cossoniana (Boiss. & Reut.) Maire: Jahandiez & Maire, Cat. Pl. Maroc 2: 287 (1932);  
 ssp. fruticulosa;  
 ssp. glaberrima (Pomel) Batt.: Batt. & Trabut, Fl. Algérie 1:59 (1888);  
 ssp. mauritanica (Coss.) Maire: Jahandiez & Maire, Cat. Pl. Maroc 2:288 (1932);  
 ssp. numidica (Coss.) Maire, Fl. Afr. Nord 12:175 (1965);  
 ssp. pomeliana Maire, Willdenowia 15:64 (1985);  
 ssp. radicata (Desf.) Batt.: Batt. & Trabut, Fl. Algérie 1:59 (1888);  
 ssp. rifana (Emb. & Maire) Maire: Jahandiez & Maire, Cat. Pl. Maroc 2:288 (1932)

Information is available in the Guide under this name.

-----  
**GENUS:** Brassica **GENOME:** Brassica glabrescens  
**SPECIES:** glabrescens Poldini  
**AUTH SOURCE:** Giorn. Bot. Ital. 107:181 (1973)  
 Information is available in the Guide under this name.

-----  
**GENUS:** Brassica **GENOME:** Brassica gravinae  
**SPECIES:** gravinae Ten.  
**AUTH SOURCE:** Fl. Napol. 1:39 (1811)  
 Information is available in the Guide under this name.

-----  
**GENUS:** Brassica **GENOME:** Brassica oleracea  
**SPECIES:** hilarionis Post  
**AUTH SOURCE:** Mém. Herb. Boissier 18:90 (1900)  
 Information is available in the Guide under this name.

-----  
**GENUS:** Brassica **GENOME:** Sinapis alba-flexuosa  
**SPECIES:** hirta Moench  
**AUTH SOURCE:** Suppl. Meth. :84, 2 (1802)  
**SYNONYM:** Sinapis alba L.  
 Information is available in the Guide under the synonym.

-----  
**GENUS:** Brassica **GENOME:** Brassica oleracea  
**SPECIES:** incana Ten.  
**AUTH SOURCE:** Fl. Napol. 1:39 (1811)  
**SYNONYM:** Brassica oleracea L. var. incana (Ten.) Paol.: Fiori & Paol., Fl. Italia 1:446 (1898)  
 Information is available in the Guide under this name.

-----  
**GENUS:** Brassica **GENOME:** Brassica oleracea  
**SPECIES:** insularis Moris  
**AUTH SOURCE:** Fl. Sardoia 1:168 (1837)  
**SYNONYM:** Brassica oleracea ssp. insularis (Moris) Rouy & Fouc., Fl. France 2:54 (1895)  
 Information is available in the Guide under this name.

-----  
**GENUS:** Brassica **GENOME:** Brassica juncea  
**SPECIES:** integrifolia (West) O.E. Schulz  
**AUTH SOURCE:** Urban, Symb. Antill. 3,3:509 (1903)  
**SYNONYM:** Brassica juncea (L.) Czern. & Coss.  
 Information is available in the Guide under the synonym.

-----  
**GENUS:** Brassica **GENOME:** Brassica deflexa  
**SPECIES:** iranica Rech. f., Aell. & Esfand.  
**AUTH SOURCE:** Phytion 3:44 (1951)  
**SYNONYM:** Brassica deflexa ssp. leptocarpa (Boiss.) Hedge  
 Information is available in the Guide under the synonym.

-----  
**GENUS:** Brassica **GENOME:** Brassica juncea  
**SPECIES:** japonica (Thunb.) Siebold ex Miq.  
**AUTH SOURCE:** Ann. Mus. Bot. Lugdono-Batavum 2:74 (1865)  
**SYNONYM:** Brassica juncea (L.) Czern. & Coss.  
 Information is available in the Guide under the synonym.

-----  
**GENUS:** Brassica **GENOME:** Brassica jordanoffii  
**SPECIES:** jordanoffii O.E. Schulz  
**AUTH SOURCE:** Notizbl. Bot. Gart. Berlin-Dahlem 10:111 (1927)  
 Information is available in the Guide under this name.

-----  
**GENUS:** Brassica **GENOME:** Brassica juncea  
**SPECIES:** juncea (L.) Czern. & Coss.  
**AUTH SOURCE:** Czern., Consp. Pl. Charc. 8 (1859)  
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Sinapis arvensis  
 SPECIES: kaber (DC.) Wheeler  
 AUTH SOURCE: Rhodora 40:306 (1938)  
 SYNONYM: Sinapis arvensis L.  
 Information is available in the Guide under the synonym.

GENUS: Brassica GENOME: Brassica deflexa  
 SPECIES: leptocarpa Boiss.  
 AUTH SOURCE: Fl. Orient. 1:392 (1867)  
 SYNONYM: Brassica deflexa ssp. leptocarpa (Boiss.) Hedge  
 Information is available in the Guide under the synonym.

GENUS: Brassica GENOME: Brassica oleracea  
 SPECIES: macrocarpa Guss.  
 AUTH SOURCE: Ind. Sem. Hort. Boccadi. 3 (1825)  
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica fruticulosa  
 SPECIES: maurorum Durieu  
 AUTH SOURCE: Rev. Bot. Bull. Mens. 2:433 (1847)  
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica oleracea  
 SPECIES: montana Pourret  
 AUTH SOURCE: Hist. Mém. Acad. Roy. Sci. Toulouse 1, ser. 3:308 (1778)  
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica napus  
 SPECIES: napus L.  
 AUTH SOURCE: Sp. Pl. :666 (1753)  
 SYNONYM: Brassica rapa ssp. napus (L.) Briq.  
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica nigra  
 SPECIES: nigra (L.) Koch  
 AUTH SOURCE: Röhl., Deutschl. Fl. ed. 3, 4:713 (1833)  
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica nivalis  
 SPECIES: nivalis Boiss. & Heldr.  
 AUTH SOURCE: Boiss., Diagn. Pl. Orient. Nov. ser. 2, 1:32 (1853)  
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica oleracea  
 SPECIES: nivea Boiss. & Spruner  
 AUTH SOURCE: Boiss. Diagn. Pl. Orient. Nov. ser. 1, 1:72 (1843)  
 SYNONYM: Brassica cretica ssp. cretica Lam.  
 Information is available in the Guide under the synonym.

GENUS: Brassica GENOME: Brassica repanda  
 SPECIES: nudicaulis (Lag.) O.E. Schulz  
 AUTH SOURCE: Engler, Pflanzenr. IV. 105 (Heft 68-70):72 (1919)  
 SYNONYM: Brassica repanda ssp. nudicaulis (Lag.) Heywood  
 Information is available in the Guide under the synonym.

GENUS: Brassica GENOME: Brassica oleracea  
 SPECIES: oleracea L.  
 AUTH SOURCE: Sp. Pl. :667 (1753)  
 SUBSPECIES: ssp. "alboqlabra";  
 ssp. oleracea;  
 ssp. sylvestris (L.) DC., Prodr. 1:213 (1834)  
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica oxyrrhina  
 SPECIES: oxyrrhina (Coss.) Willk. & Lange  
 AUTH SOURCE: Prodr. Fl. Hispan. 3:854 (1880)  
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica rapa  
 SPECIES: pekinensis (Lour.) Rupr.  
 AUTH SOURCE: Fl. Ingrica 1:96 (1860)  
 SYNONYM: Brassica rapa L.  
 Information is available in the Guide under the synonym.



GENUS: Brassica GENOME: Brassica procumbens  
 SPECIES: procumbens (Poir.) O.E. Schulz  
 AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):55 (1916)  
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica rapa  
 SPECIES: rapa L.  
 AUTH SOURCE: Sp. Pl. :666 (1753)  
 SUBSPECIES: ssp. rapa;  
 ssp. sylvestris (L.) Janchen: Janchen & Wendelberger, Kleine Fl. Wein :55 (1953)  
 SYNONYM: Brassica campestris L.  
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica repanda  
 SPECIES: repanda (Willd.) DC.  
 AUTH SOURCE: Reg. Veg. Syst. Nat. 2:598 (1821)  
 SUBSPECIES: ssp. africana (Maire) Greuter & Burdet, Willdenowia 13:86 (1983), [includes  
 ssp. nudicaulis];  
 ssp. almeriensis Gómez-Campo, Anales Inst. Bot. Cavanilles 33:154 (1976);  
 ssp. blancoana (Boiss.) Heywood, Feddes Repert. 66:153 (1962);  
 ssp. cadevallii (Font Quer) Heywood, Feddes Repert. 66:154 (1962);  
 ssp. cantabrica (Font Quer) Heywood, Feddes Repert. 69:151 (1964);  
 ssp. confusa (Emb. & Maire) Heywood, Feddes Repert. 66:153 (1962);  
 ssp. galissieri (Giraud.) Heywood, Feddes Repert. 69:150 (1964);  
 ssp. latisiliqua (Boiss. & Reut.) Heywood, Feddes Repert. 66:153 (1962);  
 ssp. maritima (Rouy) Heywood, Feddes Repert. 66:153 (1962);  
 ssp. nudicaulis (Lag.) Heywood, Feddes Repert. 69:151 (1964), [included in ssp. africana  
 Greuter et al. (1986)];  
 ssp. repanda;  
 ssp. saxatilis (DC.) Heywood, Feddes Repert. 69:151 (1964);  
 ssp. silenifolia (Emb.) Greuter & Burdet, Willdenowia 13:86 (1983);  
 ssp. turbonis (P. Monts.) J. Monts & Romo, Willdenowia 15:64 (1985)  
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica fruticulosa  
 SPECIES: rifana Emb. & Maire  
 AUTH SOURCE: Mém. Soc. Sci. Nat. Maroc, 17:26 (1927)  
 SYNONYM: Brassica fruticulosa ssp. rifana (Emb. & Maire) Maire  
 [= Erucastrum rifanum (Emb. & Maire) Gómez-Campo]  
 Information is available in the Guide under the synonym.

GENUS: Brassica GENOME: Brassica oleracea  
 SPECIES: robertiana J. Gay  
 AUTH SOURCE: Monnard, Ann. Sci. Nat. (Paris) 7:415 (1826)  
 SYNONYM: Brassica montana Pourret  
 Information is available in the Guide under the synonym.

GENUS: Brassica GENOME: Brassica oleracea  
 SPECIES: rupestris Raf.  
 AUTH SOURCE: Caratt. Nuov. Gen. :77 (1810)  
 SYNONYM: Brassica oleracea L. rupestris Paol.: Fiori & Paol., Fl. Italia I,2:446 (1898)  
 Information is available in the Guide under this name.

GENUS: Brassica GENOME: Brassica oleracea  
 SPECIES: rupicola Bouloumoy  
 AUTH SOURCE: Fl. Liban Syrie: 27 (1930)  
 SYNONYM: Brassica cretica ssp. cretica Lam.  
 Information is available in the Guide under the synonym.

GENUS: Brassica GENOME: Brassica repanda  
 SPECIES: saxatilis DC. ex Amo  
 AUTH SOURCE: Amo, Mém. Real. Acad. Ci. Exact. Madrid 5:233 (1861)  
 SYNONYM: Brassica repanda ssp. saxatilis (DC.) Heywood  
 Information is available in the Guide under the synonym.

GENUS: Brassica GENOME: Brassica fruticulosa  
 SPECIES: scopulorum Coss. & Durieu  
 AUTH SOURCE: Coss. & Barratte, Ill. Fl. Atlant. 1:28 (1882) [nom. illeg.]  
 SYNONYM: Brassica spinescens Pomel  
 Information is available in the Guide under the synonym.

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GENUS: Brassica GENOME: Brassica souliei  
 SPECIES: souliei (Batt.) Batt.  
 AUTH SOURCE: Bull. Soc. Bot. Fr. 40:262 (1893)  
 SUBSPECIES: ssp. amplexicaulis (Desf.) Greuter & Burdet, Willdenowia 13:86 (1983);  
 ssp. "dimorpha" (Coss. & Durieu) Salmeen, [unpublished Ph.D. thesis 1979];  
 ssp. souliei

Information is available in the Guide under this name.

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GENUS: Brassica GENOME: Brassica fruticulosa  
 SPECIES: spinescens Pomel  
 AUTH SOURCE: Nouv. Mat. Fl. Atlant.:364 (1875)  
 Information is available in the Guide under this name.

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GENUS: Brassica GENOME: Brassica oleracea  
 SPECIES: sylvestris (L.) Miller  
 AUTH SOURCE: Gard. Dict. ed. 8 (1): (1768)  
 SYNONYM: Brassica oleracea L.  
 Information is available in the Guide under the synonym.

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GENUS: Brassica GENOME: Brassica tournefortii  
 SPECIES: tournefortii Gouan  
 AUTH SOURCE: Ill. Observ. Bot. 44 (1773)  
 Information is available in the Guide under this name.

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GENUS: Brassica GENOME: Brassica juncea  
 SPECIES: urbaniana O.E. Schulz  
 AUTH SOURCE: Urban, Symb. Antill. 3,3:511 (1903)  
 SYNONYM: Brassica juncea (L.) Czern. & Coss.  
 Information is available in the Guide under the synonym.

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GENUS: Brassica GENOME: Brassica oleracea  
 SPECIES: villosa Biv.  
 AUTH SOURCE: Stirp. Rar. Sicilia 4:20 (1818)  
 Information is available in the Guide under this name.

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GENUS: Brassicella Fourr. GENOME: Coincya  
 AUTH SOURCE: Annal. Soc. Linn. Lyon, N.S. 16:330 (1868)  
 SYNONYM: Coincya Porta & Rigo ex Rouy  
 Information is available in the Guide under the synonym.

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GENUS: Cakile GENOME: Cakile maritima  
 SPECIES: aegyptica (L.) Pignatti  
 AUTH SOURCE: Atti Inst. Bot. Univ. Pav. ser. 5,12:149 (1956)  
 SYNONYM: Cakile maritima Scop.  
 Information is available in the Guide under the synonym.

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GENUS: Cakile GENOME: Cakile maritima  
 SPECIES: aegytiaca Willd.  
 AUTH SOURCE: Sp. Pl. 3:417 (1800)  
 SYNONYM: Cakile maritima Scop.  
 Information is available in the Guide under the synonym.

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GENUS: Cakile GENOME: Cakile arabica  
 SPECIES: arabica Velen. & Bornm.  
 AUTH SOURCE: Repert. Spec. Nov. Regni Veg. 9:114 (1911)  
 Information is available in the Guide under this name.

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GENUS: Cakile GENOME: Cakile maritima  
 SPECIES: arctica Pobedimova  
 AUTH SOURCE: Not. Syst. Herb. Inst. Bot. Acad. Sci. URSS 15:64 (1953)  
 Information is available in the Guide under this name.

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GENUS: Cakile GENOME: Cakile maritima  
 SPECIES: baltica Jordan ex Pobedimova  
 AUTH SOURCE: Not. Syst. Herb. Inst. Bot. Acad. Sci. URSS 15:66 (1953)  
 SYNONYM: Cakile maritima ssp. baltica (Jordan ex Rouy & Foucaud) Hyl. ex P.W. Ball  
 Information is available in the Guide under the synonym.

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- GENUS:** Cakile **GENOME:** Cakile maritima  
**SPECIES:** constricta Rodman  
**AUTH SOURCE:** Contrib. Gray Herbarium 205:131 (1974)  
**Information** is available in the Guide under this name.
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- GENUS:** Cakile **GENOME:** Cakile maritima  
**SPECIES:** edentula (Bigelow) Hook.  
**AUTH SOURCE:** Fl. Bor-Amer. 1:59 (1833)  
**SUBSPECIES:** ssp. edentula;  
                   ssp. harperi (Small) Rodman, Contrib. Gray Herb. 205:125 (1974);  
                   ssp. islandica (Gand.) A. & D. Love, Bot. Not. 114:52 (1961)  
**SYNONYM:** Cakile maritima Scop. (North American component)  
**Information** is available in the Guide under this name.
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- GENUS:** Cakile **GENOME:** Cakile maritima  
**SPECIES:** euxina Pobedimova  
**AUTH SOURCE:** Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk. SSSR 15:71 (1953)  
**SYNONYM:** Cakile maritima ssp. euxina (Pobedimova) E. I. Nyárády  
**Information** is available in the Guide under the synonym.
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- GENUS:** Cakile **GENOME:** Cakile maritima  
**SPECIES:** fusiformis Greene  
**AUTH SOURCE:** Pittonia 3:346 (1900)  
**SYNONYM:** Cakile lanceolata ssp. fusiformis (Greene) Rodman  
**Information** is available in the Guide under the synonym.
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- GENUS:** Cakile **GENOME:** Cakile maritima  
**SPECIES:** geniculata (Robinson) Millsp.  
**AUTH SOURCE:** Field Columb. Mus. Bot. 2, 2:126 (1900)  
**SYNONYM:** Cakile lanceolata (Willd.) O.E. Schulz  
**Information** is available in the Guide under this name.
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- GENUS:** Cakile **GENOME:** Cakile maritima  
**SPECIES:** harperi Small  
**AUTH SOURCE:** Fl. S.E. United States :478 (1903)  
**SYNONYM:** Cakile edentula ssp. harperi (Small) Rodman  
**Information** is available in the Guide under the synonym.
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- GENUS:** Cakile **GENOME:** Cakile maritima  
**SPECIES:** lanceolata (Willd.) O.E. Schulz  
**AUTH SOURCE:** Urban, Symb. Antill. 3, 3:504 (1903)  
**SUBSPECIES:** ssp. alacranensis (Millsp.) Rodman, Contrib. Gray Herb. 205:116 (1974);  
                   ssp. fusiformis (Greene) Rodman, Contrib. Gray Herb. 205:114 (1974);  
                   ssp. lanceolata;  
                   ssp. pseudoconstricta Rodman, Contrib. Gray Herb. 205:116 (1974)  
**SYNONYM:** Cakile maritima Scop.  
**Information** is available in the Guide under this name.
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- GENUS:** Cakile **GENOME:** Cakile maritima  
**SPECIES:** maritima Scop.  
**AUTH SOURCE:** Fl. Carn. ed.2 2:35 (1772)  
**SUBSPECIES:** ssp. aegyptiaca (Willd.) Nyman, Consp. :29 (1878);  
                   ssp. baltica (Jordan ex Rouy & Foucaud) Hyl. ex P.W. Ball, Feddes Repert. 69:37 (1964);  
                   ssp. euxina (Pobedimova) E. I. Nyárády, Savul., Fl. Rep. Pop. Române 3:480 (1955);  
                   ssp. integrifolia (Hornem.) Greuter & Burdet, Greuter et al., Med-Checklist 3 (1986);  
                   ssp. maritima  
**Information** is available in the Guide under this name.
- 
- GENUS:** Carrichtera **GENOME:** Carrichtera annua  
**SPECIES:** annua (L.) DC.  
**AUTH SOURCE:** Mém. Mus. Hist. Nat. Paris 7:250 (1821)  
**SYNONYM:** Vella annua L.  
**Information** is available in the Guide under this name.
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- GENUS:** Ceratocnemum **GENOME:** Ceratocnemum rapistroides  
**SPECIES:** rapistroides Coss. & Bal.  
**AUTH SOURCE:** Coss., Bull. Soc. Bot. Fr. 20:239 (1873)  
**Information** is available in the Guide under this name.
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GENUS: Chalcanthus GENOME: Chalcanthus renifolius  
 SPECIES: renifolius Boiss.  
 AUTH SOURCE: Fl. Orient. 1:212 (1867)  
 Information is available in the Guide under this name.

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GENUS: Chalcanthus GENOME: Chalcanthus tuberosus  
 SPECIES: tuberosus Kom.  
 AUTH SOURCE: Act. Hort. Petropol. 26(2):613 (1910)  
 Information is available in the Guide under this name.

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GENUS: Coincya GENOME: Coincya  
 SPECIES: cheiranthos (Vill.) Greuter & Burdet  
 AUTH SOURCE: Willdenowia 13:86 (1983)  
 SYNONYM: Coincya monensis ssp. recurvata (All.) Leadlay  
 Information is available in the Guide under the synonym.

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GENUS: Coincya GENOME: Coincya  
 SPECIES: coincyoides (Humbert & Maire) Greuter & Burdet  
 AUTH SOURCE: Willdenowia 13:87 (1983)  
 SYNONYM: Coincya monensis ssp. recurvata (All.) Leadlay  
 Information is available in the Guide under the synonym.

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GENUS: Coincya GENOME: Coincya  
 SPECIES: hispida (Cav.) Greuter & Burdet  
 AUTH SOURCE: Willdenowia 13:87 (1983)  
 SYNONYM: Coincya monensis ssp. hispida (Cav.) Leadlay  
 Information is available in the Guide under the synonym.

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GENUS: Coincya GENOME: Coincya  
 SPECIES: johnstonii (Samp.) Greuter & Burdet  
 AUTH SOURCE: Willdenowia 13:87 (1983)  
 SYNONYM: Coincya monensis ssp. recurvata (All.) Leadlay  
 Information is available in the Guide under the synonym.

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GENUS: Coincya GENOME: Coincya  
 SPECIES: leptocarpa (González-Albo) Greuter & Burdet  
 AUTH SOURCE: Willdenowia 13:87 (1983)  
 SYNONYM: Coincya rupestris ssp. leptocarpa (González-Albo) Leadlay  
 Information is available in the Guide under the synonym.

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GENUS: Coincya GENOME: Coincya  
 SPECIES: longirostra (Boiss.) Greuter & Burdet  
 AUTH SOURCE: Willdenowia 13:87 (1983)  
 Information is available in the Guide under this name.

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GENUS: Coincya GENOME: Coincya  
 SPECIES: monensis (L.) Greuter & Burdet  
 AUTH SOURCE: Willdenowia 13:87 (1983)  
 SUBSPECIES: ssp. hispida (Cav.) Leadlay: Leadlay & Heywood, Bot. J. Linn. Soc. 102:381 (1990);  
 ssp. monensis;  
 ssp. nevadensis (Willk.) Leadlay: Leadlay & Heywood, Bot. J. Linn. Soc. 102:384 (1990);  
 ssp. puberula (Pau) Leadlay: Leadlay & Heywood, Bot. J. Linn. Soc. 102:383 (1990);  
 ssp. recurvata (All.) Leadlay: Leadlay & Heywood, Bot. J. Linn. Soc. 102:370 (1990)  
 Information is available in the Guide under this name.

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GENUS: Coincya GENOME: Coincya  
 SPECIES: pseudoerucastrum (Brot.) Greuter & Burdet  
 AUTH SOURCE: Willdenowia 13:87 (1983)  
 SYNONYM: Coincya monensis ssp. recurvata (All.) Leadlay  
 Information is available in the Guide under the synonym.

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GENUS: Coincya GENOME: Coincya  
 SPECIES: puberula (Pau) Greuter & Burdet  
 AUTH SOURCE: Willdenowia 13:88 (1983)  
 SYNONYM: Coincya monensis ssp. puberula (Pau) Leadlay  
 Information is available in the Guide under the synonym.

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GENUS:	<u>Coincya</u>	GENOME: Coincya
SPECIES:	<u>richeri</u> (Vill.) Greuter & Burdet	
AUTH SOURCE:	Willdenowia 13:87 (1983)	
Information	is available in the Guide under this name.	
GENUS:	<u>Coincya</u>	GENOME: Coincya
SPECIES:	<u>rupestris</u> Porta & Rigo ex Rouy	
AUTH SOURCE:	Deyrolle, Naturaliste (Paris) 2(13):248 (1891)	
SUBSPECIES:	ssp. <u>leptocarpa</u> (González-Albo) Leadlay: Leadlay and Heywood, Bot. J. Linn. Soc. 102:364;	
	ssp. <u>rupestris</u>	
Information	is available in the Guide under this name.	
GENUS:	<u>Coincya</u>	GENOME: Coincya
SPECIES:	<u>transtagana</u> (Cout.) Clemente & Hernández-Bermejo	
AUTH SOURCE:	Lagascalia 14:138 (1986)	
SYNONYM:	<u>Rhynchosinapis transtagana</u> (Cout.) P. Silva;	
	<u>Hutera hispida</u> ssp. <u>transtagana</u> (Cout.) Gómez-Campo	
Information	is available in the Guide under this name.	
GENUS:	<u>Coincya</u>	GENOME: Coincya
SPECIES:	<u>wrightii</u> (O.E. Schulz) Stace	
AUTH SOURCE:	Watsonia 17:443 (1989)	
SYNONYM:	<u>Rhynchosinapis wrightii</u> (O.E. Schulz) Dandy ex Clapham;	
	<u>Hutera wrightii</u> (O.E. Schulz) Gómez-Campo	
Information	is available in the Guide under this name.	
GENUS:	<u>Conringia</u>	GENOME: Conringia austriaca
SPECIES:	<u>austriaca</u> (Jacq.) Sweet	
AUTH SOURCE:	Hort. Brit. 1:25 (1826)	
Information	is available in the Guide under this name.	
GENUS:	<u>Conringia</u>	GENOME: Conringia clavata
SPECIES:	<u>clavata</u> Boiss.	
AUTH SOURCE:	Ann. Sci. Nat. Bot. ser. 2, 17:84 (1842)	
Information	is available in the Guide under this name.	
GENUS:	<u>Conringia</u>	GENOME: Conringia grandiflora
SPECIES:	<u>grandiflora</u> Boiss. & Heldr.	
AUTH SOURCE:	Boiss., Diagn. Pl. Orient. Nov. ser. 1, 8:25 (1849)	
Information	is available in the Guide under this name.	
GENUS:	<u>Conringia</u>	GENOME: Conringia orientalis
SPECIES:	<u>orientalis</u> (L.) Andrzejowski ex DC.	
AUTH SOURCE:	DC., Reg. Veg. Syst. Nat. 2:508 (1821)	
Information	is available in the Guide under this name.	
GENUS:	<u>Conringia</u>	GENOME: Conringia clavata
SPECIES:	<u>perfoliata</u> (C.A. Meyer) N. Busch	
AUTH SOURCE:	Kom., Fl. SSSR 8:497 (1939)	
SYNONYM:	<u>Conringia clavata</u> Boiss.	
Information	is available in the Guide under the synonym.	
GENUS:	<u>Conringia</u>	GENOME: Conringia persica
SPECIES:	<u>persica</u> Boiss.	
AUTH SOURCE:	Diagn. Pl. Orient. ser. 1(6):12 (1845)	
Information	is available in the Guide under this name.	
GENUS:	<u>Conringia</u>	GENOME: Conringia planisiliqua
SPECIES:	<u>planisiliqua</u> Fischer & C.A. Meyer	
AUTH SOURCE:	Index Sem. Hort. Petropol. 3:32 (1837)	
Information	is available in the Guide under this name.	
GENUS:	<u>Cordylocarpus</u>	GENOME: Cordylocarpus muricatus
SPECIES:	<u>muricatus</u> Desf.	
AUTH SOURCE:	Fl. Atlant. 2:79, t. 152 (1798)	
Information	is available in the Guide under this name.	

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- GENUS:** Cossonia **GENOME:** *Raffenaldia primuloides*  
**SPECIES:** africana Durieu  
**AUTH SOURCE:** Ann. Sci. Nat. Bot. 3 ser. 20:83 (1853)  
**SYNONYM:** *Raffenaldia primuloides* Godr.  
 Information is available in the Guide under the synonym.
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- GENUS:** Cossonia **GENOME:** *Raffenaldia platycarpa*  
**SPECIES:** platycarpa Coss.  
**AUTH SOURCE:** Illustr. Fl. Atlant. 1:54 (1884)  
**SYNONYM:** *Raffenaldia platycarpa* (Coss.) Stapf  
 Information is available in the Guide under the synonym.
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- GENUS:** Crambe **GENOME:** *Crambe abyssinica*  
**SPECIES:** abyssinica Hochst. ex O.E. Schulz  
**AUTH SOURCE:** Engler, Pflanzenr. IV. 105 (Heft 68-70):243 (1919)  
 Information is available in the Guide under this name.
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- GENUS:** Crambe **GENOME:** *Crambe orientalis*  
**SPECIES:** alutacea Hand.-Mazz.  
**AUTH SOURCE:** Ann. K. K. Naturhist. Hofmus. 27:53 (1913)  
**SYNONYM:** *Crambe orientalis* var. alutacea (Hand.-Mazz.) Hedge & Hub-Mor., Notes R. B. G. Edinb. 26:181 (1965)  
 Information is available in the Guide under the synonym.
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- GENUS:** Crambe **GENOME:** *Crambe strigosa*  
**SPECIES:** arborea Webb ex Christ  
**AUTH SOURCE:** Engler, Bot. Jahrb. 9:94 (1887)  
**SYNONYM:** *Crambe strigosa* var. arborea (Webb) O.E. Schulz,  
 Engler, Pflanzenr. IV 105 (Heft 68-70):249 (1919)  
 Information is available in the Guide under the synonym.
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- GENUS:** Crambe **GENOME:** *Crambe tataria*  
**SPECIES:** aspera M. Bieb.  
**AUTH SOURCE:** Fl. Taur.-Cauc. 2:90 (1808)  
**SYNONYM:** *Crambe tataria* var. aspera (M. Bieb.) Boiss., Fl. Orient. 1:406 (1867)  
 Information is available in the Guide under the synonym.
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- GENUS:** Crambe **GENOME:** *Crambe orientalis*  
**SPECIES:** aucheri Boiss.  
**AUTH SOURCE:** Ann. Sci. Nat. Bot. ser. 2,17:388 (1842)  
**SYNONYM:** *Crambe orientalis* var. aucheri Boiss., Fl. Orient. 1:407 (1867)  
 Information is available in the Guide under the synonym.
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- GENUS:** Crambe **GENOME:** *Crambe cordifolia*  
**SPECIES:** cordifolia Steven  
**AUTH SOURCE:** Mém. Soc. Nat. Moscou 3:267 (1812)  
**SUBSPECIES:** ssp. cordifolia;  
 ssp. kotschyana (Boiss.) Jafri, Nasir & Ali, Fl. W. Pakistan 55:37 (1973)  
 Information is available in the Guide under this name.
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- GENUS:** Crambe **GENOME:** *Crambe edentula*  
**SPECIES:** edentula Fischer & C.A. Meyer  
**AUTH SOURCE:** Bull. Soc. Impér. Natural. Moscou 2:145 (1839)  
 Information is available in the Guide under this name.
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- GENUS:** Crambe **GENOME:** *Crambe filiformis*  
**SPECIES:** filiformis Jacq.  
**AUTH SOURCE:** Icon. Pl. Rar. 3:8 (1786-1793)  
 Information is available in the Guide under this name.
- 
- GENUS:** Crambe **GENOME:** *Crambe fruticosa*  
**SPECIES:** fruticosa L. f.  
**AUTH SOURCE:** Suppl. Pl. :299 (1781)  
 Information is available in the Guide under this name.
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- GENUS:** Crambe **GENOME:** *Crambe tataria*  
**SPECIES:** gibberosa Rupr.  
**AUTH SOURCE:** Mém. Acad. Sci. Pétersb. 7, ser. 15, 2:136 (1869)  
**SYNONYM:** *Crambe tataria* var. aspera (M. Bieb.) Boiss., Fl. Orient. 1:406 (1867)  
 Information is available in the Guide under the synonym.
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- GENUS:** Crambe **GENOME:** *Crambe orientalis*  
**SPECIES:** glaberrima (Bornm.) Greuter & Burdet  
**AUTH SOURCE:** Willdenowia 15:417 (1986)  
**SYNONYM:** Crambe orientalis var. glaberrima (Bornm.) O.E. Schulz ex Bornm.,  
 Notizbl. Bot. Gart. Berl. 7, 64:141 (1917)  
 Information is available in the Guide under the synonym.
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- GENUS:** Crambe **GENOME:** *Crambe strigosa*  
**SPECIES:** gomeræa Webb ex Christ  
**AUTH SOURCE:** Engler, Bot. Jahrb. 9:94 (1887)  
**SYNONYM:** Crambe strigosa L'Hér.  
 Information is available in the Guide under the synonym.
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- GENUS:** Crambe **GENOME:** *Crambe gordjaginii*  
**SPECIES:** gordjaginii Sprygin & Popov  
**AUTH SOURCE:** Korovin, Kult. & Popov, Descr. Pl. Nov. Turkestan :87 (1916)  
 Information is available in the Guide under this name.
- 
- GENUS:** Crambe **GENOME:** *Crambe tataria*  
**SPECIES:** grandiflora DC.  
**AUTH SOURCE:** Reg. Veg. Syst. Nat. 2:652 (1821)  
**SYNONYM:** Crambe tataria Sebeók, aggr.  
 Information is available in the Guide under this name.
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- GENUS:** Crambe **GENOME:** *Crambe hispanica*  
**SPECIES:** hispanica L.  
**AUTH SOURCE:** Sp. Pl. :671 (1753)  
 Information is available in the Guide under this name.
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- GENUS:** Crambe **GENOME:** *Crambe orientalis*  
**SPECIES:** junceæ M. Bieb.  
**AUTH SOURCE:** Fl. Taur.-Caus. 3:421 (1819)  
**SYNONYM:** Crambe orientalis var. junceæ (M. Bieb.) O.E. Schulz,  
 Engler, Pflanzenr. IV. 105 (Heft 68-70):238 (1919)  
 Information is available in the Guide under the synonym.
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- GENUS:** Crambe **GENOME:** *Crambe kilimandscharica*  
**SPECIES:** kilimandscharica O.E. Schulz  
**AUTH SOURCE:** Engler, Bot. Jahrb. 54 (Beibl. 119):54 (1916)  
 Information is available in the Guide under this name.
- 
- GENUS:** Crambe **GENOME:** *Crambe orientalis*  
**SPECIES:** koktebelica (Junge) N. Busch  
**AUTH SOURCE:** Kuzn. & al., Fl. Caucas. Crit. 4, 3:296 (1908)  
**SYNONYM:** Crambe orientalis var. koktebelica (Junge) O.E. Schulz,  
 Engler, Pflanzenr. IV 105 (Heft 68-70):239 (1919)  
 Information is available in the Guide under this name.
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- GENUS:** Crambe **GENOME:** *Crambe cordifolia*  
**SPECIES:** kotschyana Boiss.  
**AUTH SOURCE:** Diagn. Pl. Orient. Nov. ser. 1, 6:19 (1845)  
**SYNONYM:** Crambe cordifolia ssp. kotschyana (Boiss.) Jafri  
 Information is available in the Guide under the synonym.
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- GENUS:** Crambe **GENOME:** *Crambe kralikii*  
**SPECIES:** kralikii Coss. ex Reboud  
**AUTH SOURCE:** Bull. Soc. Bot. France 4:466 (1857)  
**SUBSPECIES:** ssp. garamas (Maire) Podl., Mitt. Bot. Staatssaml. München 17:475 (1981);  
 ssp. kralikii  
 Information is available in the Guide under this name.
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- GENUS:** Crambe **GENOME:** *Crambe laevigata*  
**SPECIES:** laevigata DC. ex Christ  
**AUTH SOURCE:** Engler, Bot. Jahrb. 9:94 (1887)  
 Information is available in the Guide under this name.
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- GENUS: Crambe GENOME: *Crambe maritima*  
 SPECIES: maritima L.  
 AUTH SOURCE: Sp. Pl. :671 (1753)  
 SYNONYM: Crambe hispanica L.  
 Information is available in the Guide under this name.
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- GENUS: Crambe GENOME: *Crambe orientalis*  
 SPECIES: mitridatis Juz.  
 AUTH SOURCE: Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk. SSSR 14:9 (1951)  
 Information is available in the Guide under this name.
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- GENUS: Crambe GENOME: *Crambe orientalis*  
 SPECIES: orientalis L.  
 AUTH SOURCE: Sp. Pl. :671 (1753)  
 Information is available in the Guide under this name.
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- GENUS: Crambe GENOME: *Crambe tataria* aggr.  
 SPECIES: parviflora Huber-Morath & Reese  
 AUTH SOURCE: Repert. Spec. Nov. Regni Veg. 48:276 (1940)  
 Information is available in the Guide under this name.
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- GENUS: Crambe GENOME: *Crambe persica*  
 SPECIES: persica Boiss.  
 AUTH SOURCE: Ann. Sci. Nat. Bot. 2 ser. 17:389 (1842)  
 Information is available in the Guide under this name.
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- GENUS: Crambe GENOME: *Crambe tataria* aggr.  
 SPECIES: pinnatifida R. Br.  
 AUTH SOURCE: Aiton, Hort. Kew. ed. 2,4:72 (1812)  
 SYNONYM: Crambe tataria var. pinnatifida (R. Br.) O.E. Schulz,  
 Engler, Pflanzenr. IV 105 (Heft 68-70):235 (1919)  
 Information is available in the Guide under the synonym.
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- GENUS: Crambe GENOME: *Crambe strigosa*  
 SPECIES: pritzelii Bolle  
 AUTH SOURCE: Ind. Sem. Hort. Berol. :10 (1861)  
 SYNONYM: Crambe strigosa L'Hér.  
 Information is available in the Guide under this name.
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- GENUS: Crambe GENOME: *Crambe scaberrima*  
 SPECIES: scaberrima Webb ex Bramwell  
 AUTH SOURCE: Cuad. Bot. Canar. 17:22 (1973)  
 Information is available in the Guide under this name.
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- GENUS: Crambe GENOME: *Crambe schugnana*  
 SPECIES: schugnana Korsh.  
 AUTH SOURCE: Bull. Acad. Sci. St. Pétersb. 5, ser. 9,5:422 (1898)  
 Information is available in the Guide under this name.
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- GENUS: Crambe GENOME: *Crambe scoparia*  
 SPECIES: scoparia Svent.  
 AUTH SOURCE: Bot. Inst. Nac. Invest. Agron., Madrid 13, 28:23 (1953)  
 Information is available in the Guide under this name.
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- GENUS: Crambe GENOME: *Crambe sinuato-dentata*  
 SPECIES: sinuato-dentata Hochst. ex Petri  
 AUTH SOURCE: Schweinfurth, Beitr. FL. Aethiop. 1:238 (1867)  
 Information is available in the Guide under this name.
- 
- GENUS: Crambe GENOME: *Crambe tataria* aggr.  
 SPECIES: steveniana Rupr.  
 AUTH SOURCE: Mém. Acad. Imp. Sci. St. Pétersb. ser. 7, 15(2):136 (1869)  
 Information is available in the Guide under this name.
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- GENUS: Crambe GENOME: *Crambe strigosa*  
 SPECIES: strigosa L'Hér.  
 AUTH SOURCE: Stirp. Nov. Fasc. 6:151 (1785)  
 Information is available in the Guide under this name.
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- GENUS:** Crambe **GENOME:** Crambe sventenii  
**SPECIES:** sventenii B. Petters ex Bramwell & Sundell  
**AUTH SOURCE:** Cuad. Bot. Canar. 17:21 (1973)  
 Information is available in the Guide under this name.
- 
- GENUS:** Crambe **GENOME:** Crambe tataria  
**SPECIES:** tataria Sebeók  
**AUTH SOURCE:** Medico-Bot. Tatar. :7 (1779)  
 Information is available in the Guide under this name.
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- GENUS:** Crambella **GENOME:** Crambella teretifolia  
**SPECIES:** teretifolia (Batt. & Trabut) Maire  
**AUTH SOURCE:** Bull. Soc. Hist. Nat. Afr. Nord 15:74 (1924)  
 Information is available in the Guide under this name.
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- GENUS:** Didesmus **GENOME:** Didesmus aegyptius  
**SPECIES:** aegyptius (L.) Desv.  
**AUTH SOURCE:** J. Bot. Agric. 3:160 (1814)  
 Information is available in the Guide under this name.
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- GENUS:** Didesmus **GENOME:** Didesmus bipinnatus  
**SPECIES:** bipinnatus (Desf.) DC.  
**AUTH SOURCE:** Reg. Veg. Syst. Nat. 2:659 (1821)  
 Information is available in the Guide under this name.
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- GENUS:** Diplotaxis **GENOME:** Diplotaxis acris  
**SPECIES:** acris (Forssk.) Boiss.  
**AUTH SOURCE:** Fl. Orient. 1:389 (1867)  
 Information is available in the Guide under this name.
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- GENUS:** Diplotaxis **GENOME:** Diplotaxis assurgens-tenuisiliqua  
**SPECIES:** assurgens (Del.) Gren.  
**AUTH SOURCE:** Fl. Massil. adv. 14 (1857)  
 Information is available in the Guide under this name.
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- GENUS:** Diplotaxis **GENOME:** Diplotaxis berthautii  
**SPECIES:** berthautii Braun-Blanq. & Maire  
**AUTH SOURCE:** Bull. Soc. Hist. Nat. Afr. Nord 13:180 (1922)  
 Information is available in the Guide under this name.
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- GENUS:** Diplotaxis **GENOME:** Diplotaxis brachycarpa  
**SPECIES:** brachycarpa Godr.  
**AUTH SOURCE:** Mém. Acad. Stanislas 3(17):374 (1854)  
 Information is available in the Guide under this name.
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- GENUS:** Diplotaxis **GENOME:** Diplotaxis ibicensis-siettiana  
**SPECIES:** brevisiliqua (Coss.) Martínez-Laborde  
**AUTH SOURCE:** Willdenowia 21:66 (1991)  
 Information is available in the Guide under this name.
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- GENUS:** Diplotaxis **GENOME:** Diplotaxis catholica-virgata  
**SPECIES:** catholica (L.) DC.  
**AUTH SOURCE:** Reg. Veg. Syst. Nat. 2:632 (1821)  
 Information is available in the Guide under this name.
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- GENUS:** Diplotaxis **GENOME:** Diplotaxis cossoniana  
**SPECIES:** cossoniana (Reut. ex Boiss.) O.E. Schulz  
**AUTH SOURCE:** Engler, Bot. Jahrb. 54 (Beibl. 119):55 (1916)  
 Information is available in the Guide under this name.
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- GENUS:** Diplotaxis **GENOME:** Diplotaxis harra  
**SPECIES:** crassifolia (Raf.) DC.  
**AUTH SOURCE:** Reg. Veg. Syst. Nat. 2:629 (1821)  
**SYNONYM:** Diplotaxis harra ssp. crassifolia (Raf.) Maire  
 Information is available in the Guide under the synonym.
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- GENUS:** Diplotaxis **GENOME:** Diplotaxis tenuifolia-simplex  
**SPECIES:** cretacea Kotov  
**AUTH SOURCE:** Klokov et al., Ukr. Bot. Zhurn. 3:17 (1926)  
 Information is available in the Guide under this name.
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- GENUS: Diplotaxis GENOME: *Diplotaxis eruroides*  
 SPECIES: eruroides (L.) DC.  
 AUTH SOURCE: Reg. Veg. Syst. Nat. 2:631 (1821)  
 Information is available in the Guide under this name.
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- GENUS: Diplotaxis GENOME: *Diplotaxis cossoniana*  
 SPECIES: eruroides ssp. cossoniana (Boiss.) Martínez-Laborde  
 AUTH SOURCE: Bot. J. Linn. Soc. 106:68 (1991)  
 SYNONYM: Diplotaxis cossoniana (Reut. ex Boiss.) O.E. Schulz  
 Information is available in the Guide under the synonym.
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- GENUS: Diplotaxis GENOME: *Diplotaxis cossoniana*  
 SPECIES: eruroides ssp. longisiliqua (Coss.) Gómez-Campo  
 AUTH SOURCE: Anal. Jard. Bot. Madrid 38:30 (1981)  
 SYNONYM: Diplotaxis cossoniana (Reut. ex Boiss.) O.E. Schulz  
 Information is available in the Guide under the synonym.
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- GENUS: Diplotaxis GENOME: *Diplotaxis harra*  
 SPECIES: glauca (J. A. Schmidt) O.E. Schulz  
 AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):55 (1916)  
 SYNONYM: Diplotaxis harra ssp. glauca (J.A. Schmidt) Sobrino  
 Information is available in the Guide under the synonym.
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- GENUS: Diplotaxis GENOME: *Diplotaxis ibicensis-siettiana*  
 SPECIES: gomez-campo Martínez-Laborde  
 AUTH SOURCE: Willdenowia 21:66 (1991)  
 Information is available in the Guide under this name.
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- GENUS: Diplotaxis GENOME: *Diplotaxis harra*  
 SPECIES: gracilis (Webb) O.E. Schulz  
 AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):56 (1916)  
 Information is available in the Guide under this name.
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- GENUS: Diplotaxis GENOME: *Diplotaxis griffithii*  
 SPECIES: griffithii (Hook f. & Thomson) Boiss.  
 AUTH SOURCE: Fl. Orient. 1:388 (1867)  
 Information is available in the Guide under this name.
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- GENUS: Diplotaxis GENOME: *Diplotaxis harra*  
 SPECIES: harra (Forssk.) Boiss.  
 AUTH SOURCE: Fl. Orient. 1:388 (1867)  
 SUBSPECIES: ssp. crassifolia (Raf.) Maire, Bull. Soc. Hist. Nat. Afr. Nord 24:198 (1933);  
 ssp. glauca (J.A. Schmidt) Sobrino, Candollea 48:137-144;  
 ssp. harra;  
 ssp. hirta (Cheval) Sobrino, Candollea 48:137-144;  
 ssp. lagascana (DC.) O. Bolòs & Vigo, Fl. Països Catal. 2:57 (1990);  
 ssp. numidica Martínez-Laborde, [Ph.D. thesis 1988]  
 Information is available in the Guide under this name.
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- GENUS: Diplotaxis GENOME: *Diplotaxis harra*  
 SPECIES: hirta (Cheval) Rustan & Borgen  
 AUTH SOURCE: Bocagiana (Funchal) 47:1-5 (1979)  
 SYNONYM: Diplotaxis harra ssp. hirta (Cheval) Sobrino  
 Information is available in the Guide under the synonym.
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- GENUS: Diplotaxis GENOME: *Diplotaxis ibicensis-siettiana*  
 SPECIES: ibicensis (Font Quer) Gómez-Campo  
 AUTH SOURCE: Anal. Jard. Bot. Madrid 38:32 (1981)  
 Information is available in the Guide under this name.
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- GENUS: Diplotaxis GENOME: *Diplotaxis harra*  
 SPECIES: lagascana DC.  
 AUTH SOURCE: Reg. Veg. Syst. Nat. 2:629 (1821)  
 SYNONYM: Diplotaxis harra ssp. lagascana (DC.) O. Bolòs & Vigo  
 Information is available in the Guide under the synonym.
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- GENUS: Diplotaxis GENOME: *Diplotaxis muralis*  
 SPECIES: muralis (L.) DC.  
 AUTH SOURCE: Reg. Veg. Syst. Nat. 2:634 (1821)  
 SUBSPECIES: ssp. ceratophylla (Batt.) Martínez-Laborde, Bot. J. Linn. Soc. 106:69 (1991);  
 ssp. muralis  
 Information is available in the Guide under this name.
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- GENUS:** Diplo~~t~~axis **GENOME:** Diplo~~t~~axis nepalensis  
**SPECIES:** nepalensis Hara  
**AUTH SOURCE:** J. Jap. Bot. 49:129 (1974)  
**Information** is available in the Guide under this name.
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- GENUS:** Diplo~~t~~axis **GENOME:** Diplo~~t~~axis ollivieri  
**SPECIES:** ollivieri Maire  
**AUTH SOURCE:** Bull. Soc. Hist. Nat. Afr. Nord 28:335 (1937)  
**Information** is available in the Guide under this name.
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- GENUS:** Diplo~~t~~axis **GENOME:** Diplo~~t~~axis pitardiana  
**SPECIES:** pitardiana Maire  
**AUTH SOURCE:** Bull. Soc. Hist. Nat. Afr. Nord 9:175 (1918)  
**Information** is available in the Guide under this name.
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- GENUS:** Diplo~~t~~axis **GENOME:** Diplo~~t~~axis ibicensis-siettiana  
**SPECIES:** siettiana Maire  
**AUTH SOURCE:** Bull. Soc. Hist. Nat. Afr. Nord. 24:198 (1933)  
**Information** is available in the Guide under this name.
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- GENUS:** Diplo~~t~~axis **GENOME:** Diplo~~t~~axis siifolia  
**SPECIES:** siifolia G. Kunze  
**AUTH SOURCE:** Flora (Regensb.) 29:685 (1846)  
**SUBSPECIES:** ssp. bipinnatifida (Coss.) Martínez-Laborde, [Ph.D. thesis 1988];  
 ssp. siifolia;  
 ssp. vicentina (Cout.) Martínez-Laborde, [Ph.D. thesis 1988]  
**Information** is available in the Guide under this name.
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- GENUS:** Diplo~~t~~axis **GENOME:** Diplo~~t~~axis tenuifolia-simplex  
**SPECIES:** simplex (Viv.) Spreng.  
**AUTH SOURCE:** Syst. Veg. 2:914 (1825)  
**Information** is available in the Guide under this name.
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- GENUS:** Diplo~~t~~axis **GENOME:** Diplo~~t~~axis tenuifolia-simplex  
**SPECIES:** tenuifolia (L.) DC.  
**AUTH SOURCE:** Reg. Veg. Syst. Nat. 2:632 (1821)  
**Information** is available in the Guide under this name.
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- GENUS:** Diplo~~t~~axis **GENOME:** Diplo~~t~~axis assurgens-tenuisiliqua  
**SPECIES:** tenuisiliqua Del.  
**AUTH SOURCE:** Index Sem. Hort. Monspel. 12:7 (1847)  
**SUBSPECIES:** ssp. rupestris (Ball) Martínez-Laborde, Bot. J. Linn. Soc. 106:70 (1991);  
 ssp. tenuisiliqua  
**Information** is available in the Guide under this name.
- 
- GENUS:** Diplo~~t~~axis **GENOME:** Diplo~~t~~axis villosa  
**SPECIES:** villosa Boulos & Jallad  
**AUTH SOURCE:** Bot. Not. 128:365 (1975)  
**Information** is available in the Guide under this name.
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- GENUS:** Diplo~~t~~axis **GENOME:** Diplo~~t~~axis viminea  
**SPECIES:** viminea (L.) DC.  
**AUTH SOURCE:** Reg. Veg. Syst. Nat. 2:635 (1821)  
**Information** is available in the Guide under this name.
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- GENUS:** Diplo~~t~~axis **GENOME:** Diplo~~t~~axis catholica-virgata  
**SPECIES:** virgata (Cav.) DC.  
**AUTH SOURCE:** Reg. Veg. Syst. Nat. 2:631 (1821)  
**Information** is available in the Guide under this name.
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- GENUS:** Diplo~~t~~axis **GENOME:** Diplo~~t~~axis "sahariensis"  
**SPECIES:** virgata f. sahariensis Coss.  
**AUTH SOURCE:** Comp. Fl. Atlant. 2:165 (1887)  
**Information** is available in the Guide under this name.
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- GENUS: Diploaxis GENOME: *Diploaxis harra*  
 SPECIES: vogelii (Webb) O.E. Schulz  
 AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):56 (1916)  
 Information is available in the Guide under this name.
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- GENUS: Distomocarpus GENOME: *Rytidocarpus moricandioides*  
 SPECIES: maroccanus O.E. Schulz  
 AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):53 (1916)  
 SYNONYM: Rytidocarpus moricandioides Coss.  
 Information is available in the Guide under the synonym.
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- GENUS: Dolichorhynchus GENOME: *Dolichorhynchus arabicus*  
 SPECIES: arabicus Hedge & Kit Tan  
 AUTH SOURCE: Pl. Syst. Evol. 156:197 (1987)  
 Information is available in the Guide under this name.
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- GENUS: Douepia GENOME: *Douepia tortuosa*  
 SPECIES: tortuosa Cambess.  
 AUTH SOURCE: Jacquem., Voy. Ind. Bot. 4:18 (1844)  
 Information is available in the Guide under this name.
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- GENUS: Enarthrocarpus GENOME: *Enarthrocarpus arcuatus*  
 SPECIES: arcuatus Labill.  
 AUTH SOURCE: Icon. Pl. Syr. 5:4 (1812)  
 Information is available in the Guide under this name.
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- GENUS: Enarthrocarpus GENOME: *Enarthrocarpus clavatus*  
 SPECIES: clavatus Del. ex Godr.  
 AUTH SOURCE: Mém. Acad. Sci. Montpellier, sect. Méd. 1:412 (1853)  
 Information is available in the Guide under this name.
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- GENUS: Enarthrocarpus GENOME: *Enarthrocarpus lyratus*  
 SPECIES: lyratus (Forssk.) DC.  
 AUTH SOURCE: Reg. Veg. Syst. Nat. 2:661 (1821)  
 Information is available in the Guide under this name.
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- GENUS: Enarthrocarpus GENOME: *Enarthrocarpus pterocarpus*  
 SPECIES: pterocarpus (Pers.) DC.  
 AUTH SOURCE: Reg. Veg. Syst. Nat. 2:661 (1821)  
 Information is available in the Guide under this name.
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- GENUS: Enarthrocarpus GENOME: *Enarthrocarpus strangulatus*  
 SPECIES: strangulatus Boiss.  
 AUTH SOURCE: Diagn. Pl. Orient. Nov. ser. 1, 8:44 (1849)  
 Information is available in the Guide under this name.
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- GENUS: Eremophyton GENOME: *Eremophyton chevallieri*  
 SPECIES: chevallieri (Barr.) Bég.  
 AUTH SOURCE: Bull. Soc. Bot. Ital. :102 (1913)  
 Information is available in the Guide under this name.
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- GENUS: Eruca GENOME: *Eruca loncholoma*  
 SPECIES: loncholoma (Pomel) O.E. Schulz  
 AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):56 (1916)  
 Information is available in the Guide under this name.
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- GENUS: Eruca GENOME: *Eruca vesicaria*  
 SPECIES: pinnatifida (Desf.) Pomel  
 AUTH SOURCE: Nouv. Mat. Fl. Atl. :367 (1875)  
 SYNONYM: Eruca vesicaria ssp. pinnatifida (Desf.) Emb. & Maire  
 Information is available in the Guide under the synonym.
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- GENUS: Eruca GENOME: *Eruca vesicaria*  
 SPECIES: sativa Mill.  
 AUTH SOURCE: Gard. Dict. ed.8(1) (1768)  
 SYNONYM: Eruca vesicaria ssp. sativa (Mill.) Thell.  
 Information is available in the Guide under the synonym.
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- GENUS: Eruca GENOME: *Eruca setulosa*  
 SPECIES: setulosa Boiss. & Reut.  
 AUTH SOURCE: Boiss., Diagn. Pl. Orient. ser. 2, 5:26 (1856)  
 Information is available in the Guide under this name.
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GENUS: Eruca GENOME: *Eruca vesicaria*  
 SPECIES: vesicaria (L.) Cav.  
 AUTH SOURCE: Descr. Pl. 426 (1802)  
 SUBSPECIES: ssp. pinnatifida (Desf.) Emb. & Maire: Jahandiez & Maire, Cat. Maroc 1004 (1941);  
 ssp. sativa (Mill.) Thell., Ill. Fl. Mitteleur. 4(1):201 (1918);  
 ssp. vesicaria

Information is available in the Guide under this name.

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GENUS: Erucaria GENOME: *Erucaria pinnata*  
 SPECIES: aegiceras J. Gay  
 AUTH SOURCE: Steudel, Nomencl. ed.1, 2:590 (1840)  
 SYNONYM: *Erucaria pinnata* (Viv.) Täckh. & Boulos  
 Information is available in the Guide under the synonym.

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GENUS: Erucaria GENOME: *Erucaria bornmuelleri*  
 SPECIES: bornmuelleri O.E. Schulz  
 AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):55 (1916)  
 Information is available in the Guide under this name.

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GENUS: Erucaria GENOME: *Erucaria rostrata*  
 SPECIES: boveana Coss.  
 AUTH SOURCE: Coss. & Barratte, Illustr. Fl. Atlant. Fasc. 2, 1:45 (1884)  
 SYNONYM: *Erucaria rostrata* (Boiss.) Greuter & Burdet  
 Information is available in the Guide under the synonym.

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GENUS: Erucaria GENOME: *Erucaria cakiloidea*  
 SPECIES: cakiloidea (DC.) O.E. Schulz  
 AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):56 (1916)  
 Information is available in the Guide under this name.

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GENUS: Erucaria GENOME: *Erucaria crassifolia*  
 SPECIES: crassifolia (Forssk.) Del.  
 AUTH SOURCE: Descr. Egypt. Illustr. in Mém. Bot. 4:20 (1813)  
 Information is available in the Guide under this name.

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GENUS: Erucaria GENOME: *Erucaria erucarioides*  
 SPECIES: erucarioides (Coss. & Durieu) C. Mueller  
 AUTH SOURCE: Ann. Bot. Syst. 7:178 (1868)  
 SYNONYM: *Reboudia erucarioides* Coss. & Durieu  
 Information is available in the Guide under this name.

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GENUS: Erucaria GENOME: *Erucaria hispanica*  
 SPECIES: hispanica (L.) Druce  
 AUTH SOURCE: Rep. Bot. Exch. Club Soc. Brit. Isles 3:418 (1914)  
 SYNONYM: *Erucaria myagroides* (L.) Halácsy  
 Information is available in the Guide under this name.

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GENUS: Erucaria GENOME: *Erucaria microcarpa*  
 SPECIES: microcarpa Boiss.  
 AUTH SOURCE: Diagn. Pl. Orient. Nov. ser. 1, 8:47 (1849)  
 SYNONYM: *Reboudia pinnata* (Viv.) O.E. Schulz  
 Information is available in the Guide under this name.

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GENUS: Erucaria GENOME: *Erucaria hispanica*  
 SPECIES: myagroides (L.) Halácsy  
 AUTH SOURCE: Consp. Fl. Graec. 1:123 (1900)  
 SYNONYM: *Erucaria hispanica* (L.) Druce  
 Information is available in the Guide under the synonym.

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GENUS: Erucaria GENOME: *Erucaria ollivieri*  
 SPECIES: ollivieri Maire  
 AUTH SOURCE: Bull. Soc. Hist. Nat. Afr. Nord 30:331 (1940)  
 Information is available in the Guide under this name.

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GENUS: Erucaria GENOME: *Erucaria pinnata*  
 SPECIES: pinnata (Viv.) Täckh. & Boulos  
 AUTH SOURCE: Publ. Cairo Univ. Herb. 5:37 (1974)  
 SUBSPECIES: ssp. pinnata;  
 ssp. uncata (Boiss.) Greuter & Burdet, Willdenowia 13:88 (1983)  
 Information is available in the Guide under this name.

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GENUS: <u>Erucaria</u>	GENOME: <u>Erucaria rostrata</u>
SPECIES: <u>rostrata</u> (Boiss.) Greuter & Burdet	
AUTH SOURCE: Willdenowia 15:419 (1986)	
Information is available in the Guide under this name.	
GENUS: <u>Erucaria</u>	GENOME: <u>Erucaria pinnata</u>
SPECIES: <u>uncata</u> (Boiss.) Aschers. & Schweinf.	
AUTH SOURCE: Mém. Inst. Egypt 2:40 (1889)	
SYNONYM: <u>Erucaria pinnata</u> ssp. <u>uncata</u> (Boiss.) Greuter & Burdet	
Information is available in the Guide under the synonym.	
GENUS: <u>Erucastrum</u>	GENOME: <u>Erucastrum arabicum-abyssinicum</u>
SPECIES: <u>abyssinicum</u> (A. Rich.) O.E. Schulz	
AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119): (1916)	
Information is available in the Guide under this name.	
GENUS: <u>Erucastrum</u>	GENOME: <u>Erucastrum arabicum-abyssinicum</u>
SPECIES: <u>arabicum</u> Fischer & C.A. Meyer	
AUTH SOURCE: Ind. Sem. Hort. Petrop. 5:35 (1839)	
Information is available in the Guide under this name.	
GENUS: <u>Erucastrum</u>	GENOME: <u>Erucastrum brevirostre</u>
SPECIES: <u>brevirostre</u> (Maire) Gómez-Campo	
AUTH SOURCE: Anal. Jard. Bot. Madrid 41:85 (1984)	
Information is available in the Guide under this name.	
GENUS: <u>Erucastrum</u>	GENOME: <u>Erucastrum canariense-cardaminoides</u>
SPECIES: <u>canariense</u> Webb & Berthel.	
AUTH SOURCE: Hist. Nat. Canary Is. :81 (1836-1840)	
Information is available in the Guide under this name.	
GENUS: <u>Erucastrum</u>	GENOME: <u>Erucastrum canariense-cardaminoides</u>
SPECIES: <u>cardaminoides</u> (Webb) O.E. Schulz	
AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):56 (1916)	
Information is available in the Guide under this name.	
GENUS: <u>Erucastrum</u>	GENOME: <u>Erucastrum elatum</u>
SPECIES: <u>elatum</u> (Ball) O.E. Schulz	
AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):56 (1916)	
SYNONYM: <u>Erucastrum laevigatum</u> ssp. <u>elatum</u> (Ball) Maire & Weiller;	
<u>Brassica elata</u> Ball	
Information is available in the Guide under this name.	
GENUS: <u>Erucastrum</u>	GENOME: <u>Erucastrum elgonense</u>
SPECIES: <u>elgonense</u> Jonsell	
AUTH SOURCE: Bot. Notiser 132:529 (1979)	
Information is available in the Guide under this name.	
GENUS: <u>Erucastrum</u>	GENOME: <u>Erucastrum gallicum</u>
SPECIES: <u>gallicum</u> (Willd.) O.E. Schulz	
AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):56 (1916)	
Information is available in the Guide under this name.	
GENUS: <u>Erucastrum</u>	GENOME: <u>Erucastrum ifniense</u>
SPECIES: <u>ifniense</u> Gómez-Campo	
AUTH SOURCE: Anal. Jahrb. Bot. Madrid 41:84 (1984)	
Information is available in the Guide under this name.	
GENUS: <u>Erucastrum</u>	GENOME: <u>Erucastrum virgatum</u>
SPECIES: <u>laevigatum</u> (L.) O.E. Schulz	
AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):56 (1916)	
SYNONYM: <u>Erucastrum elatum</u> (Ball) O.E. Schulz;	
<u>Erucastrum littoreum</u> (Pau & Font Quer) Maire;	
<u>Erucastrum virgatum</u> (J. C. Presl) C. Presl	
Information is available in the Guide under the synonyms.	
GENUS: <u>Erucastrum</u>	GENOME: <u>Erucastrum nasturtiifolium-leucanthum</u>
SPECIES: <u>leucanthum</u> Coss. & Durieu ex Coss.	
AUTH SOURCE: Bull. Soc. Bot. Fr. 2:307 (1855)	
Information is available in the Guide under this name.	

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- GENUS:** Erucastrum **GENOME:** Brassica fruticulosa  
**SPECIES:** Littoreum (Pau & Font Quer) Maire  
**AUTH SOURCE:** Cavanillesia 2:46 (1929)  
**SUBSPECIES:** ssp. brachycarpum (Maire & Weiller) Gómez-Campo, Anal. Jard. Bot. Madrid 40:71 (1983);  
 ssp. glabrum (Maire) Gómez-Campo, Anal. Jard. Bot. Madrid 40:71 (1983);  
 ssp. Littoreum (Pau & Font Quer) Maire, sensu Gómez-Campo, Anal. Jard. Bot. Madrid 40:71 (1983);  
**SYNONYM:** Erucastrum laevigatum ssp. Littoreum (Pau & Font Quer) Maire;  
Erucastrum laevigatum ssp. glabrum Maire  
 Information is available in the Guide under this name.
- 
- GENUS:** Erucastrum **GENOME:** Erucastrum meruense  
**SPECIES:** meruense Jonsell  
**AUTH SOURCE:** Bot. Notiser 132:530 (1979)  
 Information is available in the Guide under this name.
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- GENUS:** Erucastrum **GENOME:** Erucastrum nasturtiifolium-Leucanthum  
**SPECIES:** nasturtiifolium (Poiret) O.E. Schulz  
**AUTH SOURCE:** Engler, Bot. Jahrb. 54 (Beibl. 119):56 (1916)  
 Information is available in the Guide under this name.
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- GENUS:** Erucastrum **GENOME:** Erucastrum arabicum-abyssinicum  
**SPECIES:** pachypodium (Chiov.) Jonsell  
**AUTH SOURCE:** Bot. Notiser 129:127 (1976)  
 Information is available in the Guide under this name.
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- GENUS:** Erucastrum **GENOME:** Erucastrum nasturtiifolium-Leucanthum  
**SPECIES:** palustre (Pirone) Vis.  
**AUTH SOURCE:** Linnaea 28:365 (1856)  
 Information is available in the Guide under this name.
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- GENUS:** Erucastrum **GENOME:** Brassica fruticulosa  
**SPECIES:** rifanum (Emb. & Maire) Gómez-Campo  
**AUTH SOURCE:** Anal. Jard. Bot. Madrid 38:353 (1982)  
**SYNONYM:** Brassica fruticulosa ssp. rifana (Emb. & Maire) Maire;  
Brassica rifana Emberger & Maire  
 Information is available in the Guide under this name.
- 
- GENUS:** Erucastrum **GENOME:** Erucastrum strigosum  
**SPECIES:** strigosum (Thunb.) O.E. Schulz  
**AUTH SOURCE:** Engler, Bot. Jahrb. 54 (Beibl. 119):56 (1916)  
 Information is available in the Guide under this name.
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- GENUS:** Erucastrum **GENOME:** Erucastrum varium  
**SPECIES:** thellungii O.E. Schulz  
**AUTH SOURCE:** Engler, Bot. Jahrb. 54 (Beibl. 119):54 (1916)  
**SYNONYM:** Erucastrum varium ssp. incrassatum (Thell.) Maire  
 Information is available in the Guide under the synonym.
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- GENUS:** Erucastrum **GENOME:** Erucastrum varium  
**SPECIES:** varium Durieu  
**AUTH SOURCE:** Expl. Sci. Algérie, Bot. Atlas: t. 75 (1849)  
**SUBSPECIES:** ssp. barbei Vindt, Compt.-Rend. Séances Mens. Soc. Sci. Nat. Maroc 21:96 (1955);  
 ssp. brevirostre (see Erucastrum brevirostre);  
 ssp. incrassatum (Thell.) Maire, Mém. Soc. Sci. Nat. Maroc 17:26 (1928);  
 ssp. mesatlanticum Maire & Wilczek, Bull. Soc. Hist. Nat. Afr. Nord 25:289 (1934);  
 ssp. subsiifolium Maire, Bull. Soc. Hist. Nat. Afr. Nord 25:289 (1934);  
 ssp. varium  
 Information is available in the Guide under this name.
- 
- GENUS:** Erucastrum **GENOME:** Erucastrum virgatum  
**SPECIES:** virgatum (J. C. Presl) C. Presl  
**AUTH SOURCE:** Fl. Sicula 1:94 (1826)  
**SUBSPECIES:** ssp. baeticum (Boiss.) Gómez-Campo, Anal. Jard. Bot. Madrid 40:66 (1983);  
 ssp. brachycarpum (Rouy) Gómez-Campo, Anal. Jard. Bot. Madrid 40:68 (1983);  
 ssp. pseudosinapis (Lange) Gómez-Campo, Anal. Jard. Bot. Madrid 40:68 (1983);  
 ssp. virgatum  
**SYNONYM:** Erucastrum laevigatum (L.) O.E. Schulz  
 Information is available in the Guide under this name.
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GENUS:	<u>Euzomodendron</u>	GENOME:	Euzomodendron bourgaeum
SPECIES:	<u>bourgaeum</u> Coss.		
AUTH SOURCE:	Notes Pl. Crit. Midi Espagne 4:145 (1852)		
Information	is available in the Guide under this name.		
GENUS:	<u>Fabrisinapis</u>	GENOME:	Hemicrambe fruticosa
SPECIES:	<u>fruticosus</u> C.C. Townsend		
AUTH SOURCE:	Hooker's Icon. Plant. 7:1, t. 3673 (1971)		
SYNONYM:	<u>Hemicrambe fruticosa</u> (C.C. Townsend) Gómez-Campo		
Information	is available in the Guide under the synonym.		
GENUS:	<u>Fezia</u>	GENOME:	Fezia pterocarpa
SPECIES:	<u>pterocarpa</u> Pitard		
AUTH SOURCE:	Genre Cruc. Maroc :1 (1917)		
Information	is available in the Guide under this name.		
GENUS:	<u>Foleyola</u>	GENOME:	Foleyola billotii
SPECIES:	<u>billotii</u> Maire		
AUTH SOURCE:	Bull. Soc. Hist. Nat. Afr. Nord 16:90 (1925)		
Information	is available in the Guide under this name.		
GENUS:	<u>Fortuynia</u>	GENOME:	Fortuynia garcinii
SPECIES:	<u>aucheri</u> Shuttl. ex Boiss.		
AUTH SOURCE:	Boiss., Ann. Sci. Nat. Bot. ser. 2,16:379 (1841)		
SYNONYM:	<u>Fortuynia garcinii</u> (Burm.) Shuttl. ex Boiss.		
Information	is available in the Guide under the synonym.		
GENUS:	<u>Fortuynia</u>	GENOME:	Fortuynia bungei
SPECIES:	<u>bungei</u> Boiss.		
AUTH SOURCE:	Fl. Orient. 1:402 (1867)		
Information	is available in the Guide under this name.		
GENUS:	<u>Fortuynia</u>	GENOME:	Fortuynia garcinii
SPECIES:	<u>garcinii</u> (Burm.) Shuttl. ex Boiss.		
AUTH SOURCE:	Boiss., Ann. Sci. Nat. Bot. ser. 2., 17:178 (1842)		
Information	is available in the Guide under this name.		
GENUS:	<u>Guiraoa</u>	GENOME:	Guiraoa arvensis
SPECIES:	<u>arvensis</u> Coss.		
AUTH SOURCE:	Notes Pl. Crit. Midi Espagne 3:98 (1851)		
Information	is available in the Guide under this name.		
GENUS:	<u>Hemicrambe</u>	GENOME:	Hemicrambe fruticosa
SPECIES:	<u>fruticosa</u> (C.C. Townsend) Gómez-Campo		
AUTH SOURCE:	Lagascalia 7(2):189 (1978)		
Information	is available in the Guide under this name.		
GENUS:	<u>Hemicrambe</u>	GENOME:	Hemicrambe fruticulosa
SPECIES:	<u>fruticulosa</u> Webb		
AUTH SOURCE:	Ann. Sci. Nat. Bot. ser. 3,16:248 (1851)		
Information	is available in the Guide under this name.		
GENUS:	<u>Henophyton</u>	GENOME:	Henophyton deserti
SPECIES:	<u>deserti</u> (Coss. & Durieu) Coss. & Durieu		
AUTH SOURCE:	Ann. Sci. Nat. Bot. ser. 4,4:282 (1855)		
SUBSPECIES:	ssp. <u>deserti</u> ;		
	ssp. <u>zygarrhenum</u> (Maire) Greuter & Burdet, Willdenowia 13:93 (1983)		
Information	is available in the Guide under this name.		
GENUS:	<u>Hirschfeldia</u>	GENOME:	Hirschfeldia incana
SPECIES:	<u>incana</u> (L.) Lagrèze-Fossat		
AUTH SOURCE:	Fl. Tarn Garonne :19 (1847)		
SUBSPECIES:	ssp. <u>consobrina</u> (Pomel ex Batt.) Maire, Bull. Soc. Hist. Nat. Afr. Nord 31:10 (1940);		
	ssp. <u>geniculata</u> (Desf.) Maire: Jahandiez & Maire, Cat. Pl. Maroc :285 (1932);		
	ssp. <u>incana</u> ;		
	ssp. <u>leptocarpa</u> Tsvelev, Novosti Sist. Vyssh. Rast. 14:249 (1977)		
SYNONYM:	<u>Brassica adpressa</u> Boiss.;		
	<u>Sinapis incana</u> L.		
Information	is available in the Guide under this name.		

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- GENUS:** Hirschfeldia **GENOME:** *Hirschfeldia rostrata*  
**SPECIES:** rostrata (Balf. f.) O.E. Schulz  
**AUTH SOURCE:** Engler, Bot. Jahrb. 54 (Beibl. 119):56 (1916)  
**SYNONYM:** Brassica rostrata Balf. f., Proceed. Royal Soc. Edinburgh 11:500 (1882)  
**Information** is available in the Guide under this name.
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- GENUS:** Hutera **GENOME:** *Coincya*  
**AUTH SOURCE:** Porta  
**SYNONYM:** Coincya Porta & Rigo ex Rouy  
**Information** is available in the Guide under the synonym.
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- GENUS:** Kremeriella **GENOME:** *Kremeriella cordylocarpus*  
**SPECIES:** cordylocarpus (Coss. & Durieu ex Coss.) Maire  
**AUTH SOURCE:** Jahandiez & Maire, Cat. Pl. Maroc :293 (1932)  
**Information** is available in the Guide under this name.
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- GENUS:** Moricandia **GENOME:** *Moricandia arvensis*  
**SPECIES:** arvensis (L.) DC.  
**AUTH SOURCE:** Reg. Veg. Syst. Nat. 2:626 (1821)  
**SUBSPECIES:** ssp. arvensis;  
 ssp. nitens (Viv.) Maire, Bull. Soc. Hist. Nat. Afr. Nord 30:259 (1939);  
 ssp. spinosa (Pomel) Batt. & Trabut, Fl. Algérie 1:65 (1888);  
 - ssp. suffruticosa (Desf.) Maire, Mém. Soc. Sci. Nat. Maroc. 21-22:5(1930)  
**Information** is available in the Guide under this name.
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- GENUS:** Moricandia **GENOME:** *Moricandia moricandioides*  
**SPECIES:** baetica Boiss. & Reut.  
**AUTH SOURCE:** Pugill. Pl. Afr. Bor. Hispan. :8 (1852)  
**SYNONYM:** Moricandia ramburii var. microsperma Willk., in Willk. & Lange, Prodr. Fl. Hispan. 4:869 (1880)  
**Information** is available in the Guide under the synonym.
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- GENUS:** Moricandia **GENOME:** *Moricandia foetida*  
**SPECIES:** foetida Bourgeau ex Coss.  
**AUTH SOURCE:** Coss., Notes Pl. Crit. Midi Espagne 4:143 (1852)  
**Information** is available in the Guide under this name.
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- GENUS:** Moricandia **GENOME:** *Moricandia foleyi*  
**SPECIES:** foleyi Batt.  
**AUTH SOURCE:** Bull. Soc. Bot. Fr. 61:52 (1914)  
**Information** is available in the Guide under this name.
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- GENUS:** Moricandia **GENOME:** *Moricandia arvensis*  
**SPECIES:** longirostris Pomel  
**AUTH SOURCE:** Nouv. Mat. Fl. Atlant. :367 (1875)  
**SYNONYM:** Moricandia arvensis prol. longirostris (Pomel) O.E. Schulz,  
 Engler, Pflanzenr. IV 105 (Heft 82):68 (1923);  
**Information** is available in the Guide under this name.
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- GENUS:** Moricandia **GENOME:** *Moricandia moricandioides*  
**SPECIES:** moricandioides (Boiss.) Heywood  
**AUTH SOURCE:** Feddes Repert. 66:154 (1962)  
**SUBSPECIES:** ssp. cavanillesiana (Font Quer & A. Bolós) Greuter & Burdet: Greuter et al.,  
 Med.-Checklist 3 (1986);  
 ssp. giennensis Valdés-Bermejo, Anal. Inst. Bot. Cavanilles 31(1):71 (1974);  
 ssp. moricandioides  
**Information** is available in the Guide under this name.
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- GENUS:** Moricandia **GENOME:** *Moricandia arvensis*  
**SPECIES:** nitens (Viv.) Durieu & Barr.  
**AUTH SOURCE:** Prodr. Fl. Lib. :15 (1910)  
**SYNONYM:** Moricandia arvensis ssp. nitens (Viv.) Maire  
**Information** is available in the Guide under this name.
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- GENUS:** Moricandia **GENOME:** *Moricandia moricandioides*  
**SPECIES:** ramburii Webb  
**AUTH SOURCE:** Iter Hisp. :73 (1838)  
**SYNONYM:** Moricandia moricandioides (Boiss.) Heywood  
**Information** is available in the Guide under the synonym.
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GENUS: Moricandia GENOME: Moricandia arvensis  
 SPECIES: sinaica (Boiss.) Boiss.  
 AUTH SOURCE: Fl. Orient. 1:386 (1867)  
 Information is available in the Guide under this name.

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GENUS: Moricandia GENOME: Moricandia arvensis  
 SPECIES: spinosa Pomel  
 AUTH SOURCE: Nouv. Mat. Fl. Atlant. :365 (1874)  
 SYNONYM: Moricandia arvensis ssp. spinosa (Pomel) Batt.  
 Information is available in the Guide under this name.

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GENUS: Moricandia GENOME: Moricandia arvensis  
 SPECIES: suffruticosa (Desf.) Coss. & Durieu  
 AUTH SOURCE: Coss., Ann. Sci. Nat. Bot. ser. 4,4:282 (1855)  
 SYNONYM: Moricandia arvensis ssp. suffruticosa (Desf.) Maire  
 Information is available in the Guide under this name.

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GENUS: Morisia GENOME: Morisia monanthos  
 SPECIES: monanthos (Viv.) Asch.  
 AUTH SOURCE: W. Barbey, Fl. Sard. Comp. :173 (1884)  
 Information is available in the Guide under this name.

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GENUS: Muricaria GENOME: Muricaria prostrata  
 SPECIES: prostrata (Desf.) Desv.  
 AUTH SOURCE: J. Bot. Agric. 3, 4:159 (1814)  
 Information is available in the Guide under this name.

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GENUS: Otocarpus GENOME: Otocarpus virgatus  
 SPECIES: virgatus Durieu  
 AUTH SOURCE: Duchartre, Rev. Bot. Recueil Mens. 2:435 (1847)  
 Information is available in the Guide under this name.

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GENUS: Oudneya GENOME: -  
 AUTH SOURCE: R. Brown  
 SYNONYM: Henophyton Coss. & Durieu  
 Information is available in the Guide under the synonym.

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GENUS: Oudneya GENOME: Henophyton deserti  
 SPECIES: africana R. Brown  
 AUTH SOURCE: Dehnh. & Clapperton, Narr. Travels Africa :220 (1826) [nom. illeg.]  
 SYNONYM: Henophyton deserti (Coss. & Durieu) Coss. & Durieu  
 Information is available in the Guide under the synonym.

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GENUS: Oudneya GENOME: Henophyton deserti  
 SPECIES: deserti (Coss. & Durieu) Bullock  
 AUTH SOURCE: Kew Bull. 19:201 (1965)  
 SYNONYM: Henophyton deserti (Coss. & Durieu) Coss. & Durieu  
 Information is available in the Guide under the synonym.

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GENUS: Oudneya GENOME: Henophyton deserti  
 SPECIES: zygarrhena Maire  
 AUTH SOURCE: Bull. Soc. Hist. Nat. Afr. Nord 36:90 (1946)  
 SYNONYM: Henophyton deserti ssp. zygarrhenum (Maire) Greuter & Burdet  
 Information is available in the Guide under the synonym.

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GENUS: Physorrhynchus GENOME: Physorrhynchus brahuicus  
 SPECIES: brahuicus Hook.  
 AUTH SOURCE: Icon. Pl. ser. 2,5:821 (1852)  
 Information is available in the Guide under this name.

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GENUS: Physorrhynchus GENOME: Physorrhynchus chamaerapistrum  
 SPECIES: chamaerapistrum (Boiss.) Boiss.  
 AUTH SOURCE: Fl. Orient. 1:403 (1867)  
 Information is available in the Guide under this name.

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GENUS: Pseuderucaria GENOME: Pseuderucaria clavata  
 SPECIES: clavata (Boiss. & Reut.) O.E. Schulz  
 AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):54 (1916)  
 SUBSPECIES: ssp. clavata;  
 ssp. tourneuxii (Coss.) Maire, Mém. Soc. Hist. Nat. Afr. Nord 3:110 (1933)  
 Information is available in the Guide under this name.

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GENUS: Pseuderucaria GENOME: Pseuderucaria teretifolia  
 SPECIES: teretifolia (Desf.) O.E. Schulz  
 AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):54 (1916)  
 Information is available in the Guide under this name.

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GENUS: Pseuderucaria GENOME: Pseuderucaria clavata  
 SPECIES: tourneuxii (Coss.) O.E. Schulz  
 AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):54 (1916)  
 SYNONYM: Pseuderucaria clavata ssp. tourneuxii (Coss.) Maire  
 Information is available in the Guide under the synonym.

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GENUS: Pseudocytisus GENOME: Vella  
 AUTH SOURCE: Kuntze  
 SYNONYM: Vella L.  
 Information is available in the Guide under the synonym.

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GENUS: Pseudofortuynia GENOME: Pseudofortuynia esfandiarii  
 SPECIES: esfandiarii Hedge  
 AUTH SOURCE: Rech. f., Fl. Iranica 57:57 (1968)  
 Information is available in the Guide under this name.

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GENUS: Psychine GENOME: Psychine stylosa  
 SPECIES: stylosa Desf.  
 AUTH SOURCE: Fl. Atlant. 2:69 (1798)  
 Information is available in the Guide under this name.

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GENUS: Quezeliantha GENOME: Quezeliantha tibestica  
 SPECIES: tibestica (H. Scholz) H. Scholz  
 AUTH SOURCE: Taxon 31:558 (1982)  
 Information is available in the Guide under this name.

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GENUS: Raffenaldia GENOME: Raffenaldia platycarpa  
 SPECIES: platycarpa (Coss.) Stapf  
 AUTH SOURCE: Bot. Mag. :Tab 9267 (1932)  
 Information is available in the Guide under this name.

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GENUS: Raffenaldia GENOME: Raffenaldia primuloides  
 SPECIES: primuloides Godr.  
 AUTH SOURCE: Flor. Juvenal 1:5 (1853), Mém. Acad. Sci. Montpellier, Sect méd. 1:413 (1853)  
 Information is available in the Guide under this name.

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GENUS: Raphanus GENOME: Sinapis aucheri  
 SPECIES: aucheri Boiss.  
 AUTH SOURCE: Diagn. Pl. Orient. Nov. ser. 1, 8:45 (1849)  
 SYNONYM: Sinapis aucheri (Boiss.) O.E. Schulz  
 Information is available in the Guide under the synonym.

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GENUS: Raphanus GENOME: Raphanus  
 SPECIES: caudatus L.  
 AUTH SOURCE: Mantissa 1.:95 (1767)  
 SYNONYM: Raphanus sativus L.  
 Information is available in the Guide under the synonym.

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GENUS: Raphanus GENOME: Raphanus  
 SPECIES: landra Moretti ex DC.  
 AUTH SOURCE: Reg. Veg. Syst. Nat. 2:668 (1821)  
 SYNONYM: Raphanus raphanistrum ssp. landra (Moretti ex DC.) Bonnier & Layens  
 Information is available in the Guide under the synonym.

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GENUS: Raphanus GENOME: Raphanus  
 SPECIES: maritimus Sm.  
 AUTH SOURCE: Sowerby, Engl. Bot.: tab 1643 (1806)  
 SYNONYM: Raphanus raphanistrum ssp. maritimus (Sm.) Thell.  
 Information is available in the Guide under the synonym.

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GENUS: Raphanus GENOME: Raphanus  
 SPECIES: microcarpus (Lange) Willk.  
 AUTH SOURCE: Willk. & Lange, Prodr. Fl. Hispan. 3, 4:750 (1880)  
 SYNONYM: Raphanus raphanistrum ssp. microcarpus (Lange) Thell.  
 Information is available in the Guide under the synonym.

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GENUS: Raphanus GENOME: Raphanus  
 SPECIES: raphanistrum L.  
 AUTH SOURCE: Sp. Pl. :669 (1753)  
 SUBSPECIES: ssp. landra (Moretti ex DC.) Bonnier & Layens, Tabl. Syn. Pl. Vasc. Fl. France :21 (1894);  
 ssp. maritimus (Sm.) Thell.: Hegi, Ill. Fl. Mitt.-Eur. 4:278 (1918);  
 ssp. microcarpus (Lange) Thell.: Hegi, Ill. Fl. Mitt.-Eur. 4:275 (1918);  
 ssp. raphanistrum;  
 ssp. rostratus (DC.) Thell.: Hegi, Ill. Fl. Mitt.-Eur. 4:279 (1918)  
 Information is available in the Guide under this name.

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GENUS: Raphanus GENOME: Raphanus  
 SPECIES: rostratus DC.  
 AUTH SOURCE: Reg. Veg. Syst. Nat. 2:666 (1821)  
 SYNONYM: Raphanus raphanistrum ssp. rostratus (DC.) Thell.  
 Information is available in the Guide under the synonym.

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GENUS: Raphanus GENOME: Raphanus  
 SPECIES: sativus L.  
 AUTH SOURCE: Sp. Pl. :669 (1753)  
 Information is available in the Guide under this name.

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GENUS: Rapistrella GENOME: Rapistrella ramosissima  
 SPECIES: ramosissima Pomel  
 AUTH SOURCE: Mat. Fl. Atlant. :11 (1860)  
 SYNONYM: Hybrid between Rapistrum rugosum (L.) All. x Cordilocarpus muricatus Desf.  
 Information is available in the Guide under this name.

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GENUS: Rapistrum GENOME: Rapistrum rugosum  
 SPECIES: hispanicum (L.) Crantz  
 AUTH SOURCE: Class Crucif. Emend.: 106 (1769)  
 SYNONYM: Rapistrum rugosum ssp. linnaeanum Rouy & Foucaud  
 Information is available in the Guide under the synonym.

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GENUS: Rapistrum GENOME: Rapistrum rugosum  
 SPECIES: linnaeanum Boiss. & Reut. [nom. illeg.]  
 SYNONYM: Rapistrum rugosum ssp. linnaeanum Rouy & Foucaud  
 Information is available in the Guide under the synonym.

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GENUS: Rapistrum GENOME: Rapistrum rugosum  
 SPECIES: orientale (L.) Crantz  
 AUTH SOURCE: Class. Crucif. Emend. :106 (1769)  
 SYNONYM: Rapistrum rugosum  
 Information is available in the Guide under the synonym.

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GENUS: Rapistrum GENOME: Rapistrum perenne  
 SPECIES: perenne (L.) All.  
 AUTH SOURCE: Fl. Pedem. 1:258 (1785)  
 Information is available in the Guide under this name.

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GENUS: Rapistrum GENOME: Rapistrum rugosum  
 SPECIES: rugosum (L.) All.  
 AUTH SOURCE: Fl. Pedem. 1:257 (1785)  
 SUBSPECIES: ssp. linnaeanum Rouy & Foucaud, Fl. France 2:73 (1895);  
 ssp. rugosum  
 Information is available in the Guide under this name.

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GENUS: Reboudia GENOME: Erucaria erucarioides  
 SPECIES: erucarioides Coss. & Durieu  
 AUTH SOURCE: Bull. Soc. Bot. Fr. 3:705 (1856)  
 SYNONYM: Erucaria erucarioides (Coss. & Durieu) C. Mueller  
 Information is available in the Guide under the synonym.

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<b>GENUS:</b>	<u>Reboudia</u>	<b>GENOME:</b>	Erucaria microcarpa
<b>SPECIES:</b>	<u>pinnata</u> (Viv.) O.E. Schulz		
<b>AUTH SOURCE:</b>	Engler, Bot. Jahrb. 54 (Beibl. 119):56 (1916)		
<b>SYNONYM:</b>	<u>Erucaria microcarpa</u> Boiss.		
Information is available in the Guide under the synonym.			
<b>GENUS:</b>	<u>Rhynchosinapis</u>	<b>GENOME:</b>	Coincya
<b>AUTH SOURCE:</b>	Hayek		
<b>SYNONYM:</b>	<u>Coincya</u> Porta & Rigo ex Rouy		
Information is available in the Guide under the synonym.			
<b>GENUS:</b>	<u>Rytidocarpus</u>	<b>GENOME:</b>	Rytidocarpus moricandioides
<b>SPECIES:</b>	<u>moriciandioides</u> Coss.		
<b>AUTH SOURCE:</b>	Coss. & Barratte, Illustr. Fl. Atlant. 1:100 (1889)		
Information is available in the Guide under this name.			
<b>GENUS:</b>	<u>Savignya</u>	<b>GENOME:</b>	Savignya parviflora
<b>SPECIES:</b>	<u>aegyptiaca</u> DC.		
<b>AUTH SOURCE:</b>	Reg. Veg. Syst. Nat. 2:283 (1821) [nom. illeg.]		
<b>SYNONYM:</b>	<u>Savignya parviflora</u> (Del.) Webb		
Information is available in the Guide under the synonym.			
<b>GENUS:</b>	<u>Savignya</u>	<b>GENOME:</b>	Savignya parviflora
<b>SPECIES:</b>	<u>longistyla</u> Boiss. & Reut.		
<b>AUTH SOURCE:</b>	Boiss., Diagn. Pl. Orient. Nov. ser. 2, 5:27 (1856)		
<b>SYNONYM:</b>	<u>Savignya parviflora</u> ssp. <u>longistyla</u> (Boiss. & Reut.) Maire		
Information is available in the Guide under the synonym.			
<b>GENUS:</b>	<u>Savignya</u>	<b>GENOME:</b>	Savignya parviflora
<b>SPECIES:</b>	<u>parviflora</u> (Del.) Webb		
<b>AUTH SOURCE:</b>	Parl., Giorn. Bot. It. 2:215 (1847)		
<b>SUBSPECIES:</b>	ssp. <u>globosa</u> Jafri, Ali & Jafri, Fl. Libya 23:85 (1977); ssp. <u>longistyla</u> (Boiss. & Reut.) Maire, Bull. Soc. Hist. Nat. Afr. Nord 20:172 (1929); ssp. <u>parviflora</u>		
Information is available in the Guide under this name.			
<b>GENUS:</b>	<u>Schouwia</u>	<b>GENOME:</b>	Schouwia purpurea
<b>SPECIES:</b>	<u>arabica</u> DC.		
<b>AUTH SOURCE:</b>	Reg. Veg. Syst. Nat. 2:644 (1821) [nom. illeg.]		
<b>SYNONYM:</b>	<u>Schouwia purpurea</u> (Forssk.) Schweinf.		
Information is available in the Guide under the synonym.			
<b>GENUS:</b>	<u>Schouwia</u>	<b>GENOME:</b>	Schouwia purpurea
<b>SPECIES:</b>	<u>purpurea</u> (Forssk.) Schweinf.		
<b>AUTH SOURCE:</b>	Bull. Herb. Boissier 4, App. 2:183 (1896)		
<b>SUBSPECIES:</b>	ssp. <u>purpurea</u> ; ssp. <u>schimperi</u> (Jaub. & Spach) Maire, Mém. Soc. Hist. Nat. Afr. Nord 3:111 (1933)		
Information is available in the Guide under this name.			
<b>GENUS:</b>	<u>Schouwia</u>	<b>GENOME:</b>	Schouwia purpurea
<b>SPECIES:</b>	<u>schimperi</u> Jaub. & Spach		
<b>AUTH SOURCE:</b>	Illustr. Pl. Orient. 3:145 (1847)		
<b>SYNONYM:</b>	<u>Schouwia purpurea</u> ssp. <u>schimperi</u> (Jaub. & Spach) Maire		
Information is available in the Guide under the synonym.			
<b>GENUS:</b>	<u>Schouwia</u>	<b>GENOME:</b>	Schouwia purpurea
<b>SPECIES:</b>	<u>thebaica</u> Webb		
<b>AUTH SOURCE:</b>	Parl., Giorn. Bot. Ital. 2:219 (1847)		
<b>SYNONYM:</b>	<u>Schouwia purpurea</u> ssp. <u>schimperi</u> (Jaub. & Spach) Maire		
Information is available in the Guide under the synonym.			
<b>GENUS:</b>	<u>Sinapidendron</u>	<b>GENOME:</b>	Sinapidendron
<b>SPECIES:</b>	<u>angustifolium</u> (DC.) Lowe		
<b>AUTH SOURCE:</b>	Man. Fl. Madrid 1:30 (1857-1868)		
Information is available in the Guide under this name.			
<b>GENUS:</b>	<u>Sinapidendron</u>	<b>GENOME:</b>	Sinapidendron
<b>SPECIES:</b>	<u>bourgaei</u> Webb ex Christ		
<b>AUTH SOURCE:</b>	Engler Bot. Jahrb. IX:89 (1887)		
Information is available in the Guide under this name.			



GENUS:	<u>Sinapidendron</u>	GENOME:	Sinapidendron
SPECIES:	<u>frutescens</u> (Aiton) Lowe		
AUTH SOURCE:	Trans. Camb. Phil. Soc. 4:37 (1831)		
Information is available in the Guide under this name.			
GENUS:	<u>Sinapidendron</u>	GENOME:	Diploaxis harra
SPECIES:	<u>gracile</u> Webb		
AUTH SOURCE:	Hook., Icon. Pl. New ser. IV: t. 751 (1848)		
SYNONYM:	<u>Diploaxis gracilis</u> (Webb) O.E. Schulz		
Information is available in the Guide under the synonym.			
GENUS:	<u>Sinapidendron</u>	GENOME:	Diploaxis harra
SPECIES:	<u>hirtum</u> Cheval		
AUTH SOURCE:	Bull. Mus. Hist. Nat., Paris, Ser. 2, 7:141 (1935)		
SYNONYM:	<u>Diploaxis harra</u> ssp. <u>hirta</u> (Cheval) Sobrino		
Information is available in the Guide under the synonym.			
GENUS:	<u>Sinapidendron</u>	GENOME:	Sinapidendron
SPECIES:	<u>palmense</u> (Kuntze) O.E. Schulz		
AUTH SOURCE:	Engler, Pflanzenr. IV 105 (Heft 68-70):87 (1919)		
Information is available in the Guide under this name.			
GENUS:	<u>Sinapidendron</u>	GENOME:	Sinapidendron
SPECIES:	<u>rupestre</u> Lowe		
AUTH SOURCE:	Trans. Camb. Phil. Soc. 4:37 (1831)		
Information is available in the Guide under this name.			
GENUS:	<u>Sinapidendron</u>	GENOME:	Diploaxis harra
SPECIES:	<u>vogelii</u> Webb		
AUTH SOURCE:	Hook., Icon. Pl. New ser. IV: t. 152 (1848)		
SYNONYM:	<u>Diploaxis vogelii</u> (Webb) O.E. Schulz		
Information is available in the Guide under the synonym.			
GENUS:	<u>Sinapis</u>	GENOME:	Sinapis alba-flexuosa
SPECIES:	<u>alba</u> L.		
AUTH SOURCE:	Sp. Pl. :668 (1753)		
SUBSPECIES:	ssp. <u>alba</u> ;		
	ssp. <u>dissecta</u> (Lag.) Bonnier, Fl. Compl. France 1:58 (1912);		
	ssp. <u>mairei</u> (H. Lindb.) Maire, Bull. Soc. Hist. Nat. Afr. Nord 24:198 (1933)		
SYNONYM:	<u>Brassica hirta</u> Moench		
Information is available in the Guide under this name.			
GENUS:	<u>Sinapis</u>	GENOME:	Sinapis arvensis
SPECIES:	<u>allioni</u> Jacq.		
AUTH SOURCE:	Hort. Bot. Vindob. 2: 79, t. 168 (1772-1773)		
SYNONYM:	<u>Sinapis arvensis</u> ssp. <u>allioni</u> (Jacq.) Baillarg.		
Information is available in the Guide under the synonym.			
GENUS:	<u>Sinapis</u>	GENOME:	Sinapis pubescens
SPECIES:	<u>aristidis</u> Pomel		
AUTH SOURCE:	Nouv. Mat. Fl. Atlant. 2: 358 (1875)		
SYNONYM:	<u>Sinapis pubescens</u> ssp. <u>aristidis</u> (Pomel) Maire & Weiller		
Information is available in the Guide under the synonym.			
GENUS:	<u>Sinapis</u>	GENOME:	Sinapis arvensis
SPECIES:	<u>arvensis</u> L.		
AUTH SOURCE:	Sp. Pl. :668 (1753)		
SUBSPECIES:	ssp. <u>allionii</u> (Jacq.) Baillarg., Willdenowia 15:69 (1985);		
	ssp. <u>arvensis</u> ;		
	ssp. <u>nilotica</u> (O.E. Schulz) Baillarg., [Ph.D. thesis 1986]		
Information is available in the Guide under this name.			
GENUS:	<u>Sinapis</u>	GENOME:	Sinapis aucheri
SPECIES:	<u>aucheri</u> (Boiss.) O.E. Schulz		
AUTH SOURCE:	Engler, Bot. Jahrb. 54 (Beibl. 119):56 (1916)		
SYNONYM:	<u>Brassica aucheri</u> Boiss., Ann. Sci. Nat. Bot., Ser. 2, 17:88 (1842);		
	<u>Raphanus aucheri</u> (Boiss.) Boiss., Diagn. Pl. Orient. Nov. ser. 1, 8:45 (1849)		
Information is available in the Guide under this name.			

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- GENUS:** Sinapis **GENOME:** Sinapis pubescens  
**SPECIES:** boivinii Baillarg.  
**AUTH SOURCE:** Ph.D. thesis 1986  
**SYNONYM:** Sinapis pubescens L.  
 Information is available in the Guide under the synonym.
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- GENUS:** Sinapis **GENOME:** Sinapis alba-flexuosa  
**SPECIES:** dissecta Lag.  
**AUTH SOURCE:** Gen. Sp. Pl. :20 (1816)  
**SYNONYM:** Sinapis alba ssp. dissecta (Lag.) Bonnier  
 Information is available in the Guide under the synonym.
- 
- GENUS:** Sinapis **GENOME:** Sinapis alba-flexuosa  
**SPECIES:** flexuosa Poir.  
**AUTH SOURCE:** Lam., Encycl. Méth. Bot. 4:341 (1797)  
 Information is available in the Guide under this name.
- 
- GENUS:** Sinapis **GENOME:** Sinapis pubescens  
**SPECIES:** indurata Coss.  
**AUTH SOURCE:** Bull. Soc. Bot. Fr. 9:168 (1862)  
**SYNONYM:** Sinapis pubescens ssp. indurata (Coss.) Batt.  
 Information is available in the Guide under the synonym.
- 
- GENUS:** Sinapis **GENOME:** Sinapis alba-flexuosa  
**SPECIES:** mairei H. Lindb.  
**AUTH SOURCE:** Acta Soc. Sci. Fenn. Ser. B Opera. Biol. 1:65 (1932)  
**SYNONYM:** Sinapis alba ssp. mairei (H. Lindb.) Maire  
 Information is available in the Guide under the synonym.
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- GENUS:** Sinapis **GENOME:** Sinapis pubescens  
**SPECIES:** pubescens L.  
**AUTH SOURCE:** Mantissa 1:95 (1767)  
**SUBSPECIES:** ssp. aristidis (Pomel) Maire & Weiller: Maire, Fl. Afr. Nord 12:240 (1965);  
 ssp. "boivinii" [= Sinapis boivinii];  
 ssp. indurata (Coss.) Batt.: Batt. & Trabut, Fl. Algérie 1:53 (1888);  
 ssp. pubescens;  
 ssp. virgata (Batt.) Baillarg., [Ph.D. thesis 1986]  
 Information is available in the Guide under this name.
- 
- GENUS:** Sinapis **GENOME:** Sinapis arvensis  
**SPECIES:** turgida (Pers.) Del.  
**AUTH SOURCE:** Mém. Bot. Desc. Egypt 4:19 (1813)  
**SYNONYM:** Sinapis arvensis ssp. allionii (Jacq.) Baillarg.  
 Information is available in the Guide under the synonym.
- 
- GENUS:** Succowia **GENOME:** Succowia balearica  
**SPECIES:** balearica (L.) Medik.  
**AUTH SOURCE:** Pflanzengatt. :65 (1792)  
 Information is available in the Guide under this name.
- 
- GENUS:** Trachycnemum **GENOME:** Trachycnemum mirabile  
**SPECIES:** mirabile Maire & Sam.  
**AUTH SOURCE:** Arkiv f. Bot. 29A, 11:9 (1939)  
**SYNONYM:** Hybrid between Trachystoma ballii O.E. Schulz x Ceratocnemum rapistroides Coss. & Bal.  
 Information is available in the Guide under this name.
- 
- GENUS:** Trachystoma **GENOME:** Trachystoma aphanoneurum-ballii  
**SPECIES:** aphanoneurum (Maire & Weiller) Maire & Weiller  
**AUTH SOURCE:** Bull. Soc. Hist. Nat. Afr. Nord 25:289 (1934)  
 Information is available in the Guide under this name.
- 
- GENUS:** Trachystoma **GENOME:** Trachystoma aphanoneurum-ballii  
**SPECIES:** ballii O.E. Schulz  
**AUTH SOURCE:** Engler, Bot. Jahrb. 54 (Beibl. 119):52 (1916)  
 Information is available in the Guide under this name.
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- GENUS:** Trachystoma **GENOME:** Trachystoma labasii  
**SPECIES:** labasii Maire  
**AUTH SOURCE:** Mém. Soc. Sci. Nat. Maroc 15:6 (1927)  
 Information is available in the Guide under this name.
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- GENUS: Vella GENOME: Carrichtera annua  
 SPECIES: annua L.  
 AUTH SOURCE: Sp. Pl.: 641 (1753)  
 SYNONYM: Carrichtera annua (L.) DC.  
 Information is available in the Guide under the synonym.
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- GENUS: Vella GENOME: Vella anremerica  
 SPECIES: anremerica (Litard. & Maire) Gómez-Campo  
 AUTH SOURCE: Bot. J. Linn. Soc. 82:175 (1981)  
 SYNONYM: Vella pseudocytisus ssp. anremerica Litard. & Maire, Mém. Soc. Sci. Nat. Maroc. 26:6 (1931)  
 Information is available in the Guide under this name.
- 
- GENUS: Vella GENOME: Vella anremerica  
 SPECIES: charpinii Fernández-Casas  
 AUTH SOURCE: Fontqueria 1:9 (1982)  
 SYNONYM: Vella anremerica (Lit. & Maire) Gómez-Campo  
 Information is available in the Guide under the synonym.
- 
- GENUS: Vella GENOME: Vella pseudocytisus  
 SPECIES: glabrescens Coss.  
 AUTH SOURCE: Coss. & Barratte, Illust. Fl. Atlant. 1:71 (1884)  
 SYNONYM: Vella pseudocytisus ssp. glabrata (Coss.) Greuter  
 Information is available in the Guide under the synonym.
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- GENUS: Vella GENOME: Vella lucentina  
 SPECIES: lucentina M. B. Crespo  
 AUTH SOURCE: Bot. J. Linn. Soc. 109:370 (1992)  
 Information is available in the Guide under this name.
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- GENUS: Vella GENOME: Vella mairei  
 SPECIES: mairei Humbert  
 AUTH SOURCE: Bull. Soc. Hist. Nat. Afr. Nord 15:186 (1924)  
 Information is available in the Guide under this name.
- 
- GENUS: Vella GENOME: Vella pseudocytisus  
 SPECIES: pseudocytisus L.  
 AUTH SOURCE: Sp. Pl.: 641 (1753)  
 SUBSPECIES: ssp. glabrata (Coss.) Greuter: Greuter et al., Med.-Checklist 3 (1986);  
 ssp. pau Gómez-Campo, Bot. J. Linn. Soc. 82:174 (1981);  
 ssp. pseudocytisus  
 Information is available in the Guide under this name.
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- GENUS: Vella GENOME: Vella spinosa  
 SPECIES: spinosa Boiss.  
 AUTH SOURCE: Biblioth. Univ. Genève ser. 2, 13:407 (1838)  
 Information is available in the Guide under this name.
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- GENUS: Zilla GENOME: Zilla spinosa  
 SPECIES: biparmata O.E. Schulz  
 AUTH SOURCE: Engler, Bot. Jahrb. 54 (Beibl. 119):55 (1916)  
 SYNONYM: Zilla spinosa ssp. biparmata (O.E. Schulz) Maire & Weiller  
 Information is available in the Guide under the synonym.
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- GENUS: Zilla GENOME: Zilla spinosa  
 SPECIES: macroptera Coss.  
 AUTH SOURCE: Bull. Soc. Bot. Fr. 3:670 (1856)  
 SYNONYM: Zilla spinosa ssp. macroptera (Coss.) Maire & Weiller  
 Information is available in the Guide under the synonym.
- 
- GENUS: Zilla GENOME: Zilla spinosa  
 SPECIES: spinosa (L.) Prantl  
 AUTH SOURCE: Engler & Prantl Nat. Pflanzenr. 3,2:174 (1891)  
 SUBSPECIES: ssp. biparmata (O.E. Schulz) Maire & Weiller, Bull. Soc. Hist. Nat. Afr. Nord 30:260 (1939);  
 ssp. costata Maire & Weiller, Bull. Soc. Hist. Nat. Afr. Nord 30:260 (1939);  
 ssp. macroptera (Coss.) Maire & Weiller: Maire, Fl. Afr. Nord 13:8 (1967);  
 ssp. myagroides (Forssk.) Maire & Weiller, Bull. Soc. Hist. Nat. Afr. Nord 30:260 (1939);  
 ssp. spinosa  
 Information is available in the Guide under this name.
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